

AD-A146 451

PERFORMANCE MONITORING SYSTEM: SUMMARY OF LOCK
STATISTICS FOR OCTOBER-DECEMBER 1983(U) ARMY ENGINEER
INST FOR WATER RESOURCES FORT BELVOIR VA

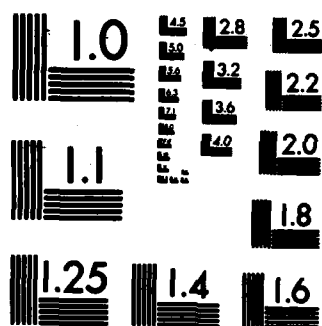
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US Army Corps
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Performance Monitoring System: Summary of Lock Statistics for October - December 1983

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August 1984

Summary Report 84-SR-5

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| 19. KEY WORDS (Continue on reverse side if necessary and identify by block number) lock Performance Monitoring System PMS Statistics | | |
| 20. ABSTRACT (Continue on reverse side if necessary and identify by block number) Lock Performance Monitoring data are collected at Corps locks by lock operators from observation and information provided by waterway operators. This quarterly summary is an overview of the collected statistics. | | |

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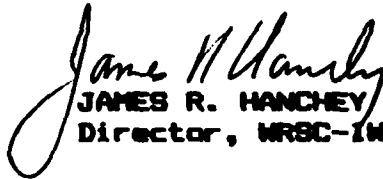
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PREFACE

This report is a product of the Navigation Data Management and Applications Branch of the U. S. Army Engineer Institute for Water Resources (WRSC-IWR). The information is compiled from statistics collected at the Corps locks in support of the lock Performance Monitoring System (PMS).

The study is managed by Mrs. Marilyn V. Fleming under the supervision of Mr. Francis M. Sharp, Chief of the WRSC-IWR Navigation Data Management and Applications Branch, and Dr. Lloyd B. Antle, Chief of the WRSC-IWR Navigation Division. The Office of the Chief of Engineers (OCE) sponsors are Mr. Henry W. Campbell Jr., DAEN-CWO-M, and Mr. Robert E. Daniel, DAEN-CWP-G.

Requests to update or change the distribution, comments and questions can be directed to Frank Sharp (202-335-2240 or FTS 385-2240) or Marilyn Fleming at the same telephone number. The information is produced and distributed quarterly.


JAMES R. HANCHEY
Director, WRSC-IWR

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Introduction

The lock Performance Monitoring System (PMS) is a part of the Inland Navigation Systems Analysis (INSA) program and encompasses the collection, editing, maintenance and analysis of data collected at all Corps-owned and operated locks. The data have been collected since March of 1975 and consist of information describing the traffic through the locks as well as the physical aspects of lockages. The quarterly summary of selected statistics presented in the appendix provides an overview of the traffic and operation at each lock. The quarterly report is presented as a set of three tables for each Corps District. Information reported for each lock and chamber includes:

TABLE 1. A listing providing the name of the lock, the river on which the lock is and its dimensions. In those cases where there is no quarterly information, this table will be the only display for the district.

TABLE 2. A table providing, by direction and total, the number of tows, commercial vessels other than tows, recreational vessels, barges (empty and loaded), commercial lockages, recreational lockages and tonnage.

TABLE 3. A summary of approach, entry, chambering and exit times (maximum, minimum and average) and the number of delays, total delay time, maximum delay time and average delay time.

Although the summary information will be computed and displayed for chambers at which there is data for only one or two months of the quarter, the fact is noted on the report.

TABLE 1

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/83 THROUGH 12/83
INSTITUTE FOR WATER RESOURCES

| ERDC B2 | DISTRICT NAME NEW ORLEANS | DIVISION NAME LOWER MISS VALLEY | 10/83 | 11/83 | 12/83 |
|-------------------|----------------------------------|------------------------------------|-------|-------|-------|
| <hr/> | | | | | |
| RIVER | LCODE-LOCK NAME | LEN/WTD/DRAFT (FT/FT/FT) | | | |
| ATCHAFALAYA RIVER | 11-BERNICK LOCK | 0300/0045/11.0 | | | |
| BAYOU TECHÉ | 31-KEYSTONE LOCK | 0160/0036/12.0 | | | |
| FRESHWATER BAYOU | 41-FRESHWATER BAYOU LOCK | 0590/0084/15.0 | | | |
| GULF INTRACASTAL | 01-PORT ALLEN LOCK | 1202/0084/15.0 | | | |
| | 02-BAYOU SORREL LOCK | 0800/0056/16.0 | | | |
| | 03-INNER HBOR NAVIGATION CANL LK | 0626/0074/40.0 | | | |
| | 04-ALGERS LOCK | 0760/0075/15.0 | | | |
| | 05-HARVEY LOCK | 0426/0075/14.0 | | | |
| | 06-BAYOU BOEUF LOCK | 1148/0075/15.0 | | | |
| | 07-VERMILLION LOCK | 1195/0056/14.0 | | | |
| | 08-CALCASIEU LOCK | 1194/0075/15.0 | | | |
| | 21-SCHOONER BAYOU CONTROL STRUCT | 9999/0075/14.0 | | | |
| | 22-CATFISH POINT CONTROL STRUCT | 9999/0056/16.0 | | | |
| | 23-CALCASIEU SALT WATER BARRIER | 9999/0056/15.0 | | | |
| OLD RIVER | 51-OLD RIVER LOCK | 1200/0075/15.0 | | | |
| RED RIVER | 01-RED RIVER LOCK & DAM #1 | 0685/0084/ 9.0 | | | |

NO DATA RECORDED ON SURRYRY FILE FOR THIS PERIOD

NO DATA RECORDED ON LOCKAGE FILE FOR THIS PERIOD

TABLE 1

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/83 THROUGH 12/83
INSTITUTE FOR WATER RESOURCES

| | | | | | |
|------|---------------|-------------------|-----------------|-------|-------|
| ERDC | DISTRICT NAME | DIVISION NAME | MONTHS REPORTED | | |
| B3 | ST. LOUIS | LOWER MISS VALLEY | 10/83 | 11/83 | 12/83 |

| | | |
|-------------------|----------------------------------|--------------------------|
| RIVER | LCODE-LOCK NAME | LEN/WID/DRAFT (FT/FT/FT) |
| KASKASKIA RIVER | 01-KASKASKIA RIVER NAVIGATION LK | 0610/0084/12.0 |
| MISSISSIPPI RIVER | 24-LOCK & DAM 24 | 0610/0110/12.0 |
| | 25-LOCK & DAM 25 | 0610/0110/12.0 |
| | 26-LOCK & DAM 26 | 0610/0110/12.0 |
| | 26-LOCK & DAM 26 AUX 1 | 0380/0110/12.0 |
| | 27-CHAIN OF ROCKS LOCK & DAM 27 | 1210/0110/12.0 |
| | 27-CHAIN OF ROCKS LK & DM 27 AX1 | 0610/0110/12.0 |

TABLE 2

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/83 THROUGH 12/83
INSTITUTE FOR WATER RESOURCES

| EROC 83 | DISTRICT NAME ST. LOUIS | DIVISION NAME LOWER MISS VALLEY | | MONTHS REPORTED | | | | | | | | |
|-------------------------------|----------------------------|------------------------------------|-----------------|-----------------|-----------------|----------------|-----------------|------------------|------------------|-----------------|-----------------|--------------------|
| | | | | 10/83 | 11/83 | 12/83 | | | | | | |
| RIVER/LOCK NAME | TONS | VESSEL RECRTN | VESSEL OTHER | VESSEL TOTAL | BARGES EMPTY | BARGES FULL | BARGES TOTAL | LOCKGS CONNER | LCKGES RECRTN | LCKGES OTHER | LCKGES TOTAL | TONNAGE (KTONS) |
| | | | | | | | | | | | | |
| KASKASKIA RIVER | | | | | | | | | | | | |
| KASKASKIA RIVER NAVIGATION LK | xxx | | | | | | | | | | | |
| UPBOUND STATISTICS | 156 | 82 | 54 | 292 | 563 | 1 | 564 | 211 | 49 | 3 | 263 | 0 |
| DOWNBOUND STATISTICS | 150 | 89 | 68 | 307 | 1 | 570 | 571 | 219 | 52 | 1 | 272 | 855 |
| TOTALS | 306 | 171 | 122 | 599 | 564 | 571 | 1135 | 430 | 101 | 4 | 535 | 855 |
| MISSISSIPPI RIVER | | | | | | | | | | | | |
| LOCK & DAM 24 | xxx | | | | | | | | | | | |
| UPBOUND STATISTICS | 438 | 24 | 116 | 578 | 3462 | 1661 | 5123 | 812 | 17 | 8 | 837 | 2484 |
| DOWNBOUND STATISTICS | 556 | 50 | 45 | 651 | 280 | 6434 | 6714 | 998 | 50 | 10 | 1058 | 9035 |
| TOTALS | 994 | 74 | 161 | 1229 | 3742 | 8095 | 11837 | 1810 | 67 | 18 | 1895 | 11519 |
| LOCK & DAM 25 | xxx | | | | | | | | | | | |
| UPBOUND STATISTICS | 431 | 33 | 143 | 607 | 3424 | 1642 | 5066 | 813 | 19 | 6 | 838 | 2460 |
| DOWNBOUND STATISTICS | 571 | 64 | 59 | 694 | 261 | 6489 | 6750 | 1015 | 52 | 10 | 1077 | 9117 |
| TOTALS | 1002 | 97 | 202 | 1301 | 3685 | 8131 | 11816 | 1828 | 71 | 16 | 1915 | 11578 |
| LOCK & DAM 26 | xxx | | | | | | | | | | | |
| UPBOUND STATISTICS | 570 | 0 | 47 | 617 | 5044 | 2825 | 7869 | 1139 | 0 | 1 | 1140 | 4219 |
| DOWNBOUND STATISTICS | 677 | 3 | 24 | 704 | 686 | 8053 | 8739 | 1310 | 0 | 3 | 1313 | 11348 |
| TOTALS | 1247 | 3 | 71 | 1321 | 5730 | 10878 | 16608 | 2449 | 0 | 4 | 2453 | 15567 |
| LOCK & DAM 26 AUX 1 | xxx | | | | | | | | | | | |
| UPBOUND STATISTICS | 456 | 18 | 120 | 594 | 1486 | 825 | 2311 | 992 | 13 | 21 | 1026 | 1493 |
| DOWNBOUND STATISTICS | 482 | 116 | 57 | 655 | 490 | 2201 | 2691 | 1032 | 70 | 18 | 1120 | 3247 |
| TOTALS | 938 | 134 | 177 | 1249 | 1976 | 3026 | 5002 | 2024 | 83 | 39 | 2146 | 4741 |
| CHAIN OF ROCKS LOCK & DAM 27 | xxx | | | | | | | | | | | |
| UPBOUND STATISTICS | 979 | 9 | 139 | 1127 | 6611 | 3602 | 10213 | 1017 | 2 | 9 | 1028 | 5664 |
| DOWNBOUND STATISTICS | 1095 | 29 | 113 | 1237 | 1085 | 10312 | 11397 | 1118 | 9 | 6 | 1133 | 14675 |
| TOTALS | 2074 | 38 | 252 | 2364 | 7696 | 13914 | 21610 | 2135 | 11 | 15 | 2161 | 20339 |

TABLE 2

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/83 THROUGH 12/83
INSTITUTE FOR WATER RESOURCES

| EROC B3 | DISTRICT NAME ST. LOUIS | DIVISION NAME LOWER MISS VALLEY | MONTHS REPORTED | | | | | | | | | |
|-----------------|----------------------------|------------------------------------|-----------------|----------------|----------------|---------------|----------------|------------------|------------------|-----------------|-----------------|--------------------|
| | | | 10/83 | 11/83 | 12/83 | | | | | | | |
| RIVER/LOCK NAME | TOWS | VESSL RECRTN | VESSL OTHER | VESSL TOTAL | BARCS EMPTY | BARCS FULL | BARCS TOTAL | LOCKGS COMMER | LCKGES RECRTN | LCKGES OTHER | LCKGES TOTAL | TONNAGE (KTONS) |
| | | | | | | | | | | | | |

(NAV, OPN, ETC)

MISSISSIPPI RIVER

CHAIN OF ROCKS LK & DN 27 AX1

| | | | | | | | | | | | | |
|----------------------|-----|-----|-----|------|-----|------|------|-----|----|----|------|------|
| UPBOUND STATISTICS | 354 | 20 | 180 | 554 | 689 | 269 | 958 | 491 | 9 | 19 | 519 | 411 |
| DOWNBOUND STATISTICS | 346 | 137 | 134 | 617 | 241 | 860 | 1101 | 467 | 61 | 23 | 551 | 1242 |
| TOTALS | 700 | 157 | 314 | 1171 | 930 | 1129 | 2059 | 958 | 70 | 42 | 1070 | 1653 |

TABLE 3

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/83 THROUGH 12/83
INSTITUTE FOR WATER RESOURCES

| EROC B3 | DISTRICT NAME ST. LOUIS | DIVISION NAME LOWER MISS VALLEY | MONTHS REPORTED | | | | | | | | | | | | | | |
|--------------------------------|----------------------------|------------------------------------|----------------------|-----|-----|-------|-----|-------|-------|-----|-----|-----------------|-------|-------|---------|--------|-------------|
| | | | 10/83 | | | | | 11/83 | | | | | 12/83 | | | | |
| ALL TIMES EXPRESSED IN MINUTES | | | | | | | | | | | | | | | | | |
| APPROACH | | | LOCK PROCESSING TIME | | | | | | EXIT | | | : DELAYED DELAY | | DELAY | DELAY | | |
| MIN | AVG | MAX | : MIN | AVG | MAX | : MIN | AVG | MAX | : MIN | AVG | MAX | : TONS | TIME | AVG | MAX | | |
| | | | | | | | | | | | | | | | (TONS) | (TONS) | (ALL VSSLS) |
| KASKASKIA RIVER | | | | | | | | | | | | | | | | | |
| KASKASKIA RIVER NAVIGATION L | 1 | 6 | 55 | 1 | 4 | 23 | 5 | 9 | 30 | 1 | 4 | 21 | : | 25 | 536 | 21.4 | 60 |
| MISSISSIPPI RIVER | | | | | | | | | | | | | | | | | |
| LOCK & DAM 24 | 1 | 7 | 390 | 1 | 9 | 194 | 4 | 11 | 105 | 1 | 17 | 125 | : | 933 | 534818 | 573.2 | 2662 |
| LOCK & DAM 25 | 1 | 5 | 263 | 1 | 9 | 165 | 4 | 12 | 100 | 1 | 15 | 230 | : | 1000 | 734894 | 734.9 | 10260 |
| LOCK & DAM 26 | 1 | 3 | 805 | 1 | 10 | 150 | 3 | 13 | 119 | 1 | 11 | 454 | : | 1246 | 2169053 | 1740.8 | 6230 |
| LOCK & DAM 26 AUX 1 | 1 | 5 | 612 | 1 | 7 | 127 | 2 | 13 | 98 | 1 | 11 | 119 | : | 937 | 690530 | 737.0 | 3664 |
| CHAIN OF ROCKS LOCK & DAM 27 | 1 | 9 | 67 | 1 | 8 | 40 | 3 | 11 | 38 | 1 | 8 | 29 | : | 1684 | 140016 | 83.1 | 666 |
| CHAIN OF ROCKS LK & DM 27 AX | 1 | 7 | 51 | 1 | 4 | 40 | 5 | 10 | 33 | 1 | 3 | 35 | : | 325 | 11339 | 34.9 | 732 |

TABLE 1

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/83 THROUGH 12/83
INSTITUTE FOR WATER RESOURCES

PAGE 6

| EROC | DISTRICT NAME | DIVISION NAME | MONTHS REPORTED | | |
|------|---------------|-------------------|-----------------|-------|-------|
| B4 | VICKSBURG | LOWER MISS VALLEY | 10/83 | 11/83 | 12/83 |

| RIVER | LCODE-LOCK NAME | LEN/WID/DRAFT (FT/FT/FT) |
|-------------------|--------------------------|--------------------------|
| OUCHITA/BLACK RIV | 01-JONESVILLE LOCK & DAM | 0655/0084/23.4 |
| | 02-COLUMBIA LOCK & DAM | 0655/0084/27.4 |
| | 06-LOCK & DAM 6 | 0300/0055/17.4 |
| | 08-LOCK & DAM 8 | 0300/0055/19.0 |

TABLE 3

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/83 THROUGH 12/83
INSTITUTE FOR WATER RESOURCES

PAGE 8

| EROC 04 | DISTRICT NAME VICKSBURG | | | DIVISION NAME LOWER MISS VALLEY | | | | | | | | MONTHS REPORTED 10/8311/8312/83 | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------|----------------------------|-----|----------------------|------------------------------------|---------|-----|---|-----|------|-----|---|------------------------------------|---------|-------|-------|-------|----|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ALL TIMES EXPRESSED IN MINUTES | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| APPROACH | | | LOCK PROCESSING TIME | | | | | | EXIT | | | : | DELATED | DELAY | DELAY | DELAY | | | | | | | | | | | | | | | | | | |
| | | | ENTRY | | CHAMBER | | : | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MIN | AVG | MAX | : | MIN | AVG | MAX | : | MIN | AVG | MAX | : | : | TOMS | TIME | AVG | MAX | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| OUCHITA/BLACK RIV | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| JONESVILLE LOCK & DAM | 1 | 8 | 35 | 1 | 4 | 13 | 5 | 19 | 48 | 1 | 7 | 20 | : | 8 | 175 | 21.9 | 60 | | | | | | | | | | | | | | | | | |
| COLUMBIA LOCK & DAM | 3 | 5 | 9 | 3 | 5 | 11 | 5 | 16 | 25 | 5 | 6 | 12 | : | 0 | 0 | 0.0 | 0 | | | | | | | | | | | | | | | | | |
| LOCK & DAM 6 | 2 | 5 | 15 | 1 | 5 | 15 | 5 | 15 | 35 | 1 | 6 | 18 | : | 11 | 37 | 3.4 | 8 | | | | | | | | | | | | | | | | | |
| LOCK & DAM 8 | 2 | 4 | 15 | 2 | 5 | 10 | 5 | 15 | 35 | 2 | 6 | 15 | : | 8 | 42 | 5.3 | 15 | | | | | | | | | | | | | | | | | |

TABLE 1

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/83 THROUGH 12/83
INSTITUTE FOR WATER RESOURCES

| | | | | | |
|-----------------------|---------------------------------------|--|-------|--------------------------|-------|
| EROC E3 | DISTRICT NAME NEW YORK | DIVISION NAME NORTH ATLANTIC | 10/83 | MONTHS REPORTED 11/83 | 12/83 |
| RIVER HUDSON RIVER | LCODE-LOCK NAME 01-TROY LOCK & DAM | LEN/MID/DRAFT (FT/FT/FT) 0493/0044/15.0 | | | |

TABLE 2

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/83 THROUGH 12/83
INSTITUTE FOR WATER RESOURCES

| EROC E3 | DISTRICT NAME NEW YORK | DIVISION NAME NORTH ATLANTIC | MONTHS REPORTED | | | | | | | | | |
|----------------------|---------------------------|---------------------------------|-----------------|-------|-------|-------|-------|--------|--------|--------|--------|--------------------|
| | | | 10/83 | 11/83 | | | 12/83 | | | | | |
| ----- | | | | | | | | | | | | |
| RIVER/LOCK NAME | TOMS | VESSL | VESSL | VESSL | BARGS | BARGS | BARGS | LOCKGS | LCKGES | LCKGES | LCKGES | TONNAGE (KTONS) |
| | | RECRTN | OTHER | TOTAL | EMPTY | FULL | TOTAL | CONNER | RECRTN | OTHER | TOTAL | |
| | | (NAV, OPN, ETC) | | | | | | | | | | |
| ----- | | | | | | | | | | | | |
| HUDSON RIVER | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| TROY LOCK & DAM | xxx | | | | | | | | | | | |
| UPBOUND STATISTICS | 77 | 101 | 1 | 179 | 0 | 85 | 85 | 81 | 65 | 6 | 152 | 162 |
| DOWNBOUND STATISTICS | 82 | 277 | 1 | 360 | 81 | 2 | 83 | 88 | 178 | 7 | 273 | 0 |
| TOTALS | 159 | 378 | 2 | 539 | 81 | 87 | 168 | 169 | 243 | 13 | 425 | 162 |

TABLE 3

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/83 THROUGH 12/83
INSTITUTE FOR WATER RESOURCES

| EROC E3 | DISTRICT NAME NEW YORK | DIVISION NAME NORTH ATLANTIC | MONTHS REPORTED | | | | | | | | | | | | | | | |
|-----------------|---------------------------|---------------------------------|--------------------------------|---|---|-------------|-------|----|-------------|---|-----------------|----|--------|---|--------|------|-------------|--|
| | | | 10/83 | | | | 11/83 | | | | 12/83 | | | | | | | |
| | | | ALL TIMES EXPRESSED IN MINUTES | | | | | | | | | | | | | | | |
| APPROACH | | | LOCK PROCESSING TIME | | | | | | EXIT | | : DELAYED DELAY | | DELAY | | DELAY | | | |
| | | | ENTRY | | | CHAMBER | | | | | : TONS | | TIME | | AVG | | MAX | |
| MIN AVT MAX | | | MIN AVG MAX | | | MIN AVG MAX | | | MIN AVG MAX | | : | | (TONS) | | (TONS) | | (ALL VSSLS) | |
| HUDSON RIVER | | | | | | | | | | | | | | | | | | |
| TROY LOCK & DAM | | | | | | | | | | | | | | | | | | |
| | 3 | 8 | 25 | 4 | 5 | 15 | 5 | 10 | 25 | 4 | 5 | 10 | : | 8 | 80 | 10.0 | 40 | |

TABLE 1

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/83 THROUGH 12/83
INSTITUTE FOR WATER RESOURCES

| EROC | DISTRICT NAME | DIVISION NAME | MONTHS REPORTED | | |
|------|---------------|----------------|-----------------|-------|-------|
| E4 | NORFOLK | NORTH ATLANTIC | 10/83 | 11/83 | 12/83 |

| | | |
|---------------------|----------------------------|--------------------------|
| RIVER | LCODE-LOCK NAME | LEN/WID/DRAFT (FT/FT/FT) |
| ATLANT INTRACOASTAL | 11-GREAT BRIDGE GUARD LOCK | 0600/0072/16.0 |
| DISMAL SWAMP | 01-DEEP CREEK LOCK | 0300/0052/12.0 |
| | 02-SOUTH HILLS LOCK | 0300/0052/12.0 |

TABLE 2

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/83 THROUGH 12/83
INSTITUTE FOR WATER RESOURCES

| EROC E4 | DISTRICT NAME NORFOLK | DIVISION NAME NORTH ATLANTIC | MONTHS REPORTED | | | | | | | | | | | |
|-------------------------|--------------------------|---------------------------------|-----------------|-----------------|----------------|----------------|----------------|---------------|----------------|------------------|------------------|-----------------|------------------------------------|--------------------|
| | | | 10/83 | | 11/83 | | 12/83 | | | | | | | |
| RIVER/LOCK NAME | | | TONS | VESSL RECRTN | VESSL OTHER | VESSL TOTAL | BARGS EMPTY | BARGS FULL | BARGS TOTAL | LOCKGS CONNER | LOCKGS RECRTN | LOCKGS OTHER | LOCKGS TOTAL (NAV, DPN, ETC) | TONNAGE (KTONS) |
| ATLANT INTRCOASTAL | | | | | | | | | | | | | | |
| GREAT BRIDGE GUARD LOCK | | | xxx | | | | | | | | | | | |
| UPBOUND STATISTICS | | | 172 | 403 | 74 | 649 | 112 | 123 | 235 | 228 | 211 | 23 | 462 | 133 |
| DOWNBOUND STATISTICS | | | 158 | 2358 | 61 | 2577 | 98 | 109 | 207 | 220 | 598 | 18 | 836 | 122 |
| TOTALS | | | 330 | 2761 | 135 | 3226 | 210 | 232 | 442 | 448 | 809 | 41 | 1298 | 256 |
| DISMAL SWAMP | | | | | | | | | | | | | | |
| DEEP CREEK LOCK | | | xxx | | | | | | | | | | | |
| UPBOUND STATISTICS | | | 0 | 222 | 0 | 222 | 0 | 0 | 0 | 2 | 110 | 0 | 112 | 0 |
| DOWNBOUND STATISTICS | | | 0 | 45 | 0 | 45 | 0 | 0 | 0 | 2 | 23 | 0 | 25 | 0 |
| TOTALS | | | 0 | 267 | 0 | 267 | 0 | 0 | 0 | 4 | 133 | 0 | 137 | 0 |
| SOUTH MILLS LOCK | | | xxx | | | | | | | | | | | |
| UPBOUND STATISTICS | | | 0 | 14 | 0 | 14 | 0 | 0 | 0 | 0 | 12 | 0 | 12 | 0 |
| DOWNBOUND STATISTICS | | | 0 | 260 | 0 | 260 | 0 | 0 | 0 | 2 | 119 | 0 | 121 | 0 |
| TOTALS | | | 0 | 274 | 0 | 274 | 0 | 0 | 0 | 2 | 131 | 0 | 133 | 0 |

TABLE 3

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/83 THROUGH 12/83
INSTITUTE FOR WATER RESOURCES

| EROC E4 | DISTRICT NAME NORFOLK | | | DIVISION NAME NORTH ATLANTIC | | | | | | MONTHS REPORTED 10/8311/8312/83 | | | | | | | | |
|--------------------------------|--------------------------|-----|----------------------|---------------------------------|-----|-------|-----|-----|--------|------------------------------------|------|-----------------|-----|--------|--------|-------------|--|--|
| | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| ALL TIMES EXPRESSED IN MINUTES | | | | | | | | | | | | | | | | | | |
| APPROACH | | | LOCK PROCESSING TIME | | | | | | EXIT | | | : DELAYED DELAY | | DELAY | DELAY | | | |
| ENTRY | | | CHAMBER | | | MAX | | | : TOMS | | TIME | AVG | MAX | | | | | |
| MIN | AVG | MAX | : MIN | AVG | MAX | : MIN | AVG | MAX | : MIN | AVG | MAX | : | | (TOMS) | (TOMS) | (ALL VSSLS) | | |
| | | | | | | | | | | | | | | | | | | |
| ATLANT INTRCOASTAL | | | | | | | | | | | | | | | | | | |
| GREAT BRIDGE GUARD LOCK | | | | | | | | | | | | | | | | | | |
| 1 | 3 | 20 | 1 | 4 | 17 | 1 | 8 | 55 | 1 | 4 | 15 | : | 330 | 1546 | 4.7 | 45 | | |
| DISMAL SWAMP | | | | | | | | | | | | | | | | | | |
| DEEP CREEK LOCK | | | | | | | | | | | | | | | | | | |
| 2 | 4 | 7 | 1 | 4 | 6 | 5 | 9 | 12 | 2 | 5 | 10 | : | 0 | 0 | 0.0 | 175 | | |
| SOUTH HILLS LOCK | | | | | | | | | | | | | | | | | | |
| 2 | 4 | 8 | 2 | 4 | 6 | 5 | 9 | 11 | 3 | 5 | 10 | : | 0 | 0 | 0.0 | 115 | | |

TABLE 1

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/83 THROUGH 12/83
INSTITUTE FOR WATER RESOURCES

| EROC | DISTRICT NAME | DIVISION NAME | MONTHS REPORTED | | |
|------|---------------|---------------|-----------------|-------|-------|
| F1 | BUFFALO | NORTH CENTRAL | 10/83 | 11/83 | 12/83 |

| RIVER | LCODE-LOCK NAME | LEN/MID/DRAFT (FT/FT/FT) |
|-----------------------|--------------------|--------------------------|
| BLK ROCK CH/TOMAHAWKA | 01-BLACK ROCK LOCK | 0650/0070/21.7 |

TABLE 2

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/83 THROUGH 12/83
INSTITUTE FOR WATER RESOURCES

| EROC F1 | DISTRICT NAME BUFFALO | DIVISION NAME NORTH CENTRAL | MONTHS REPORTED | | |
|------------|--------------------------|--------------------------------|-----------------|-------|-------|
| | | | 10/83 | 11/83 | 12/83 |

| RIVER/LOCK NAME | TONS | VESSL RECRTN | VESSL OTHER | VESSL TOTAL | BARGS EMPTY | BARGS FULL | BARGES TOTAL | LOCKGS COMMER | LOCKGS RECRTN | LOCKGS OTHER | LOCKGS TOTAL | TONNAGE (KTONS) |
|-----------------|------|-----------------|----------------|----------------|----------------|---------------|-----------------|------------------|------------------|-----------------|-----------------|--------------------|
| | | | | | | | | | | | | |

(NAV, OPH, ETC)

BLK ROCK CH/TONNAGE

| BLACK ROCK LOCK | XXX | | | | | | | | | | | |
|----------------------|-----|-----|----|-----|---|----|----|----|-----|----|-----|-----|
| UPBOUND STATISTICS | 0 | 291 | 18 | 309 | 0 | 0 | 0 | 20 | 113 | 11 | 144 | 0 |
| DOWNBOUND STATISTICS | 17 | 393 | 5 | 415 | 0 | 17 | 17 | 22 | 188 | 9 | 219 | 154 |
| TOTALS | 17 | 684 | 23 | 724 | 0 | 17 | 17 | 42 | 301 | 20 | 363 | 154 |

TABLE 1

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/83 THROUGH 12/83
INSTITUTE FOR WATER RESOURCES

| EROC | DISTRICT NAME | DIVISION NAME | MONTHS REPORTED | | |
|------|---------------|---------------|-----------------|-------|-------|
| F3 | DETROIT | NORTH CENTRAL | 10/83 | 11/83 | 12/83 |

| RIVER | LCODE-LOCK NAME | LEN/WID/DRAFT (FT/FT/FT) |
|------------------|----------------------------------|--------------------------|
| FOX RIVER | 11-DE PERE LOCK & DAM | 0146/0036/ 6.0 |
| | 12-LITTLE KAUKAUNA LOCK & DAM | 0146/0036/ 6.0 |
| | 13-RAPIDE CROCHE LOCK & DAM | 0146/0036/ 6.0 |
| | 21-KAUKAUNA LOCK 1 | 0144/0035/ 6.0 |
| | 22-KAUKAUNA LOCK 2 | 0144/0035/ 6.0 |
| | 23-KAUKAUNA LOCK 3 | 0144/0037/ 6.0 |
| | 24-KAUKAUNA LOCK 4 | 0144/0037/ 6.0 |
| | 25-KAUKAUNA LOCK 5 | 0144/0036/ 6.0 |
| | 32-LITTLE CHUTE LOCK 2 | 0142/0035/ 6.0 |
| | 33-LITTLE CHUTE COMB LOCKS UPPER | 0144/0037/ 6.0 |
| | 34-LITTLE CHUTE COMB LOCKS LOWER | 0146/0036/ 6.0 |
| | 35-CEDARS LOCK & DAM | 0144/0035/ 6.0 |
| | 41-APPLETON LOCK 1 | 0145/0035/ 6.0 |
| | 42-APPLETON LOCK 2 | 0145/0035/ 6.0 |
| | 43-APPLETON LOCK 3 | 0144/0035/ 6.0 |
| | 44-APPLETON LOCK 4 | 0144/0035/ 6.0 |
| | 51-MENASHA LOCK & DAM | 0144/0035/ 6.0 |
| THE INLAND ROUTE | 11-ALANSON LOCK | 0066/0018/ 7.0 |
| ST MARYS RIVER | 01-MACARTHUR LOCK | 0000/0080/31.0 |
| | 02-MEN POE LOCK | 1200/0110/32.0 |
| | 03-DAVIS LOCK00 | 1350/0080/31.0 |
| | 04-SABIN LOCK00 | 1350/0080/31.0 |

TABLE 2

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/83 THROUGH 12/83
INSTITUTE FOR WATER RESOURCES

| EROC F3 | DISTRICT NAME DETROIT | DIVISION NAME NORTH CENTRAL | MONTHS REPORTED | | | | | | | | | | | |
|----------------------------|--------------------------|--------------------------------|-----------------|----------------|---------------|-----------------|------------------|------------------|------------------------------------|-----------------|--------------------|---|--|--|
| | | | 10/83 | | 11/83 | | 12/83 | | | | | | | |
| RIVER/LOCK NAME | | | | | | | | | | | | | | |
| TOWS | VESSL RECRTH | VESSL OTHER | VESSL TOTAL | BARGS EMPTY | BARGS FULL | BARGES TOTAL | LOCKGS CONNER | LCKGES RECRTH | LCKGES OTHER (NAV, OPN, ETC) | LCKGES TOTAL | TONNAGE (KTONS) | | | |
| FOX RIVER | | | | | | | | | | | | | | |
| DE PERE LOCK & DAM | | NO DATA RECORDED FOR THIS LOCK | | | | | | | | | | | | |
| LITTLE KAUKAUNA LOCK & DAM | | *** ONLY FIRST MONTH REPORTED | | | | | | | | | | | | |
| UPBOUND STATISTICS | 0 | 22 | 0 | 22 | 0 | 0 | 0 | 2 | 33 | 0 | 35 | 0 | | |
| DOWNBOUND STATISTICS | 0 | 34 | 0 | 34 | 0 | 0 | 0 | 2 | 33 | 0 | 35 | 0 | | |
| TOTALS | 0 | 56 | 0 | 56 | 0 | 0 | 0 | 4 | 66 | 0 | 70 | 0 | | |
| RAPIDE CROCHE LOCK & DAM | | *** ONLY FIRST MONTH REPORTED | | | | | | | | | | | | |
| UPBOUND STATISTICS | 0 | 7 | 0 | 7 | 0 | 0 | 0 | 0 | 18 | 1 | 19 | 0 | | |
| DOWNBOUND STATISTICS | 0 | 16 | 0 | 16 | 0 | 0 | 0 | 2 | 23 | 0 | 25 | 0 | | |
| TOTALS | 0 | 23 | 0 | 23 | 0 | 0 | 0 | 2 | 41 | 1 | 44 | 0 | | |
| KAUKAUNA LOCK 1 | | *** ONLY FIRST MONTH REPORTED | | | | | | | | | | | | |
| UPBOUND STATISTICS | 0 | 9 | 0 | 9 | 0 | 0 | 0 | 2 | 9 | 2 | 13 | 0 | | |
| DOWNBOUND STATISTICS | 1 | 19 | 1 | 21 | 1 | 0 | 1 | 2 | 13 | 3 | 18 | 0 | | |
| TOTALS | 1 | 28 | 1 | 30 | 1 | 0 | 1 | 4 | 22 | 5 | 31 | 0 | | |
| KAUKAUNA LOCK 2 | | *** ONLY FIRST MONTH REPORTED | | | | | | | | | | | | |
| UPBOUND STATISTICS | 0 | 5 | 0 | 5 | 0 | 0 | 0 | 0 | 9 | 3 | 12 | 0 | | |
| DOWNBOUND STATISTICS | 0 | 18 | 3 | 21 | 0 | 0 | 0 | 2 | 12 | 3 | 17 | 0 | | |
| TOTALS | 0 | 23 | 3 | 26 | 0 | 0 | 0 | 2 | 21 | 6 | 29 | 0 | | |
| KAUKAUNA LOCK 3 | | *** ONLY FIRST MONTH REPORTED | | | | | | | | | | | | |
| UPBOUND STATISTICS | 0 | 8 | 0 | 8 | 0 | 0 | 0 | 2 | 10 | 0 | 12 | 0 | | |
| DOWNBOUND STATISTICS | 0 | 18 | 0 | 18 | 0 | 0 | 0 | 2 | 13 | 0 | 15 | 0 | | |
| TOTALS | 0 | 26 | 0 | 26 | 0 | 0 | 0 | 4 | 23 | 0 | 27 | 0 | | |
| KAUKAUNA LOCK 4 | | *** ONLY FIRST MONTH REPORTED | | | | | | | | | | | | |
| UPBOUND STATISTICS | 0 | 7 | 0 | 7 | 0 | 0 | 0 | 2 | 10 | 0 | 12 | 0 | | |
| DOWNBOUND STATISTICS | 0 | 14 | 0 | 14 | 0 | 0 | 0 | 2 | 12 | 0 | 14 | 0 | | |
| TOTALS | 0 | 21 | 0 | 21 | 0 | 0 | 0 | 4 | 22 | 0 | 26 | 0 | | |

TABLE 2

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/83 THROUGH 12/83
INSTITUTE FOR WATER RESOURCES

| EROC F3 | DISTRICT NAME DETROIT | DIVISION NAME NORTH CENTRAL | MONTHS REPORTED | | | | | | | | | | | |
|-------------------------------|--------------------------|--------------------------------|---------------------------|----------------|----------------|---------------|-----------------|------------------|------------------|-----------------|-----------------|--------------------|---|--|
| | | | 10/83 | | 11/83 | | 12/83 | | | | | | | |
| RIVER/LOCK NAME | | | | | | | | | | | | | | |
| TONS | | VESSL RECRTN | VESSL OTHER | VESSL TOTAL | BARCS EMPTY | BARCS FULL | BARGES TOTAL | LOCKGS COMMER | LCKGES RECRTN | LCKGES OTHER | LCKGES TOTAL | TONNAGE (KTONS) | | |
| (NAV, OPN, ETC) | | | | | | | | | | | | | | |
| FOX RIVER | | | | | | | | | | | | | | |
| KAUKAUNA LOCK 5 | | xxx | ONLY FIRST MONTH REPORTED | | | | | | | | | | | |
| UPBOUND STATISTICS | | 0 | 8 | 0 | 8 | 0 | 0 | 0 | 2 | 10 | 0 | 12 | 0 | |
| DOWNBOUND STATISTICS | | 0 | 19 | 0 | 19 | 0 | 0 | 0 | 2 | 13 | 0 | 15 | 0 | |
| TOTALS | | 0 | 27 | 0 | 27 | 0 | 0 | 0 | 4 | 23 | 0 | 27 | 0 | |
| LITTLE CHUTE LOCK 2 | | xxx | ONLY FIRST MONTH REPORTED | | | | | | | | | | | |
| UPBOUND STATISTICS | | 0 | 7 | 0 | 7 | 0 | 0 | 0 | 0 | 12 | 4 | 16 | 0 | |
| DOWNBOUND STATISTICS | | 0 | 14 | 5 | 19 | 0 | 0 | 0 | 1 | 16 | 6 | 23 | 0 | |
| TOTALS | | 0 | 21 | 5 | 26 | 0 | 0 | 0 | 1 | 28 | 10 | 39 | 0 | |
| LITTLE CHUTE COMB LOCKS UPPER | | xxx | ONLY FIRST MONTH REPORTED | | | | | | | | | | | |
| UPBOUND STATISTICS | | 0 | 5 | 0 | 5 | 0 | 0 | 0 | 2 | 11 | 2 | 15 | 0 | |
| DOWNBOUND STATISTICS | | 0 | 16 | 4 | 20 | 0 | 0 | 0 | 0 | 15 | 5 | 20 | 0 | |
| TOTALS | | 0 | 21 | 4 | 25 | 0 | 0 | 0 | 2 | 26 | 7 | 35 | 0 | |
| LITTLE CHUTE COMB LOCKS LOWER | | xxx | ONLY FIRST MONTH REPORTED | | | | | | | | | | | |
| UPBOUND STATISTICS | | 0 | 5 | 1 | 6 | 0 | 0 | 0 | 0 | 12 | 4 | 16 | 0 | |
| DOWNBOUND STATISTICS | | 0 | 16 | 3 | 19 | 0 | 0 | 0 | 1 | 14 | 4 | 19 | 0 | |
| TOTALS | | 0 | 21 | 4 | 25 | 0 | 0 | 0 | 1 | 26 | 8 | 35 | 0 | |
| CEDARS LOCK & DAM | | xxx | ONLY FIRST MONTH REPORTED | | | | | | | | | | | |
| UPBOUND STATISTICS | | 0 | 8 | 0 | 8 | 0 | 0 | 0 | 2 | 11 | 0 | 13 | 0 | |
| DOWNBOUND STATISTICS | | 0 | 16 | 1 | 17 | 0 | 0 | 0 | 2 | 15 | 1 | 18 | 0 | |
| TOTALS | | 0 | 24 | 1 | 25 | 0 | 0 | 0 | 4 | 26 | 1 | 31 | 0 | |
| APPLETON LOCK 1 | | xxx | ONLY FIRST MONTH REPORTED | | | | | | | | | | | |
| UPBOUND STATISTICS | | 0 | 11 | 0 | 11 | 0 | 0 | 0 | 2 | 10 | 0 | 12 | 0 | |
| DOWNBOUND STATISTICS | | 0 | 12 | 1 | 13 | 0 | 0 | 0 | 1 | 18 | 1 | 20 | 0 | |
| TOTALS | | 0 | 23 | 1 | 24 | 0 | 0 | 0 | 3 | 28 | 1 | 32 | 0 | |
| APPLETON LOCK 2 | | xxx | ONLY FIRST MONTH REPORTED | | | | | | | | | | | |
| UPBOUND STATISTICS | | 0 | 12 | 0 | 12 | 0 | 0 | 0 | 2 | 10 | 0 | 12 | 0 | |
| DOWNBOUND STATISTICS | | 0 | 11 | 1 | 12 | 0 | 0 | 0 | 2 | 18 | 1 | 21 | 0 | |
| TOTALS | | 0 | 23 | 1 | 24 | 0 | 0 | 0 | 4 | 28 | 1 | 33 | 0 | |

TABLE 2

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/83 THROUGH 12/83
INSTITUTE FOR WATER RESOURCES

| EROC F3 | DISTRICT NAME DETROIT | DIVISION NAME NORTH CENTRAL | MONTHS REPORTED | | | | | | | | | | | |
|----------------------|--------------------------|--------------------------------|--------------------------------|---------------------------|----------------|----------------|----------------|---------------|-----------------|------------------|------------------|-----------------|-----------------|--------------------|
| | | | 10/83 | | 11/83 | | 12/83 | | | | | | | |
| RIVER/LOCK NAME | | | TONS | VESSL RECRTN | VESSL OTHER | VESSL TOTAL | BARGS EMPTY | BARGS FULL | BARGES TOTAL | LOCKGS COMMER | LCKGES RECRTN | LCKGES OTHER | LCKGES TOTAL | TONNAGE (KTONS) |
| (NAV, OPN, ETC) | | | | | | | | | | | | | | |
| FOX RIVER | | | | | | | | | | | | | | |
| APPLETON LOCK 3 | | | xxx | ONLY FIRST MONTH REPORTED | | | | | | | | | | |
| UPBOUND STATISTICS | | | 0 | 12 | 1 | 13 | 0 | 0 | 0 | 2 | 10 | 1 | 13 | 0 |
| DOWNBOUND STATISTICS | | | 0 | 11 | 0 | 11 | 0 | 0 | 0 | 1 | 19 | 0 | 20 | 0 |
| TOTALS | | | 0 | 23 | 1 | 24 | 0 | 0 | 0 | 3 | 29 | 1 | 33 | 0 |
| APPLETON LOCK 4 | | | xxx | ONLY FIRST MONTH REPORTED | | | | | | | | | | |
| UPBOUND STATISTICS | | | 0 | 11 | 0 | 11 | 0 | 0 | 0 | 2 | 10 | 0 | 12 | 0 |
| DOWNBOUND STATISTICS | | | 0 | 10 | 1 | 11 | 0 | 0 | 0 | 2 | 18 | 1 | 21 | 0 |
| TOTALS | | | 0 | 21 | 1 | 22 | 0 | 0 | 0 | 4 | 28 | 1 | 33 | 0 |
| MENASHA LOCK & DAM | | | xxx | ONLY FIRST MONTH REPORTED | | | | | | | | | | |
| UPBOUND STATISTICS | | | 0 | 30 | 0 | 30 | 0 | 0 | 0 | 0 | 42 | 0 | 42 | 0 |
| DOWNBOUND STATISTICS | | | 1 | 25 | 0 | 26 | 1 | 0 | 1 | 2 | 49 | 2 | 53 | 0 |
| TOTALS | | | 1 | 55 | 0 | 56 | 1 | 0 | 1 | 2 | 91 | 2 | 95 | 0 |
| THE INLAND ROUTE | | | | | | | | | | | | | | |
| ALANSON LOCK | | | xxx | ONLY FIRST MONTH REPORTED | | | | | | | | | | |
| UPBOUND STATISTICS | | | 0 | 40 | 0 | 40 | 0 | 0 | 0 | 21 | 30 | 2 | 53 | 0 |
| DOWNBOUND STATISTICS | | | 0 | 50 | 0 | 50 | 0 | 0 | 0 | 22 | 40 | 1 | 63 | 0 |
| TOTALS | | | 0 | 90 | 0 | 90 | 0 | 0 | 0 | 43 | 70 | 3 | 116 | 0 |
| ST MARYS RIVER | | | | | | | | | | | | | | |
| MACARTHUR LOCK | | | NO DATA RECORDED FOR THIS LOCK | | | | | | | | | | | |
| NEW POE LOCK | | | NO DATA RECORDED FOR THIS LOCK | | | | | | | | | | | |
| DAVIS LOCK00 | | | NO DATA RECORDED FOR THIS LOCK | | | | | | | | | | | |
| SABIN LOCK00 | | | NO DATA RECORDED FOR THIS LOCK | | | | | | | | | | | |

TABLE 3

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/83 THROUGH 12/83
INSTITUTE FOR WATER RESOURCES

PAGE 22

| EROC F3 | DISTRICT NAME | | | DIVISION NAME | | | MONTHS REPORTED | | | | | | | | | |
|--------------------------------|---------------|---|--------------------------------|---------------|---|---|-----------------|---|-------------|---|---|-----------------|---|--------|-------------|----|
| | DETROIT | | | NORTH CENTRAL | | | 10/83 | | | | | 11/83 | | 12/83 | | |
| ALL TIMES EXPRESSED IN MINUTES | | | | | | | | | | | | | | | | |
| APPROACH | | | LOCK PROCESSING TIME | | | | | | EXIT | | | : DELAYED DELAY | | DELAY | DELAY | |
| MIN AVG MAX | | | ENTRY CHAMBER | | | | | | MIN AVG MAX | | | : TONS TIME | | AVG | MAX | |
| | | | | | | | | | | | | (TONS) | | (TONS) | (ALL VSSLS) | |
| FOX RIVER | | | | | | | | | | | | | | | | |
| DE PERE LOCK & DAM | | | NO DATA RECORDED FOR THIS LOCK | | | | | | | | | | | | | |
| LITTLE KAUKAUNA LOCK & DAM | 1 | 1 | 2 | 1 | 1 | 5 | 1 | 4 | 10 | 1 | 1 | 3 : | 0 | 0 | 0.0 | 7 |
| RAPIDE CROCHE LOCK & DAM | 1 | 1 | 1 | 1 | 1 | 2 | 3 | 5 | 10 | 1 | 1 | 2 : | 0 | 0 | 0.0 | 9 |
| KAUKAUNA LOCK 1 | 1 | 1 | 1 | 1 | 1 | 2 | 3 | 6 | 7 | 1 | 1 | 2 : | 0 | 0 | 0.0 | 10 |
| KAUKAUNA LOCK 2 | 1 | 1 | 2 | 1 | 1 | 2 | 2 | 6 | 8 | 1 | 1 | 2 : | 0 | 0 | 0.0 | 5 |
| KAUKAUNA LOCK 3 | 1 | 1 | 1 | 1 | 1 | 5 | 3 | 5 | 10 | 1 | 1 | 3 : | 0 | 0 | 0.0 | 3 |
| KAUKAUNA LOCK 4 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 5 | 8 | 1 | 1 | 1 : | 0 | 0 | 0.0 | 5 |
| KAUKAUNA LOCK 5 | 1 | 1 | 1 | 1 | 1 | 5 | 1 | 5 | 9 | 1 | 1 | 1 : | 0 | 0 | 0.0 | 5 |
| LITTLE CHUTE LOCK 2 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 6 | 10 | 1 | 1 | 2 : | 0 | 0 | 0.0 | 5 |
| LITTLE CHUTE COMB LOCKS UPPE | 1 | 1 | 2 | 1 | 1 | 2 | 2 | 5 | 10 | 1 | 1 | 2 : | 0 | 0 | 0.0 | 5 |
| LITTLE CHUTE COMB LOCKS LOWE | 1 | 1 | 1 | 1 | 1 | 5 | 1 | 5 | 10 | 1 | 1 | 2 : | 0 | 0 | 0.0 | 5 |
| CEDARS LOCK & DAM | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 4 | 10 | 1 | 1 | 1 : | 0 | 0 | 0.0 | 10 |
| APPLETON LOCK 1 | 1 | 1 | 1 | 1 | 1 | 5 | 1 | 5 | 7 | 1 | 1 | 1 : | 0 | 0 | 0.0 | 2 |
| APPLETON LOCK 2 | 1 | 1 | 1 | 1 | 1 | 2 | 4 | 5 | 7 | 1 | 1 | 1 : | 0 | 0 | 0.0 | 2 |
| APPLETON LOCK 3 | 1 | 1 | 1 | 1 | 1 | 1 | 4 | 5 | 7 | 1 | 1 | 1 : | 0 | 0 | 0.0 | 5 |

TABLE 1

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/83 THROUGH 12/83
INSTITUTE FOR WATER RESOURCES

| EROC F4 | DISTRICT NAME ROCK ISLAND | DIVISION NAME NORTH CENTRAL | MONTHS REPORTED | | |
|-------------------|------------------------------|--------------------------------|-------------------------|-------|-------|
| | | | 10/83 | 11/83 | 12/83 |
| <hr/> | | | | | |
| RIVER | LCODE-LOCK NAME | | LEN/HD/DRAFT (FT/FT/FT) | | |
| ILLINOIS | 01-THOMAS J O'BRIEN | | 1200/0110/12.0 | | |
| | 02-LOCKPORT LOCK | | 1200/0110/12.0 | | |
| | 03-BRANDON ROAD LOCK & DAM | | 1200/0110/12.0 | | |
| | 04-DRESDEN ISLAND LOCK & DAM | | 1200/0110/12.0 | | |
| | 05-MARSELLES LOCK & DAM | | 1200/0110/12.0 | | |
| | 06-STARVED ROCK LOCK & DAM | | 1200/0110/12.0 | | |
| | 07-PEORIA LOCK & DAM | | 1200/0110/12.0 | | |
| | 08-LAGRANGE LOCK & DAM | | 1200/0110/12.0 | | |
| MISSISSIPPI RIVER | 11-LOCK & DAM 11 | | 1350/0110/10.0 | | |
| | 12-LOCK & DAM 12 | | 1350/0110/10.0 | | |
| | 13-LOCK & DAM 13 | | 1350/0110/10.0 | | |
| | 14-LOCK & DAM 14 | | 1350/0110/10.0 | | |
| | 14-LOCK & DAM 14 AUXILIARY 1 | | 1350/0110/10.0 | | |
| | 15-LOCK & DAM 15 | | 1350/0110/10.0 | | |
| | 15-LOCK & DAM 15 AUXILIARY 1 | | 1350/0110/10.0 | | |
| | 16-LOCK & DAM 16 | | 1350/0110/10.0 | | |
| | 17-LOCK & DAM 17 | | 1350/0110/10.0 | | |
| | 18-LOCK & DAM 18 | | 1350/0110/10.0 | | |
| | 19-LOCK & DAM 19 | | 1350/0110/10.0 | | |
| | 19-LOCK & DAM 19 AUXILIARY 1 | | 1350/0110/10.0 | | |
| | 20-LOCK & DAM 20 | | 1350/0110/10.0 | | |
| | 21-LOCK & DAM 21 | | 1350/0110/10.0 | | |
| 22-LOCK & DAM 22 | | 1350/0110/10.0 | | | |

TABLE 2

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/83 THROUGH 12/83
INSTITUTE FOR WATER RESOURCES

| EROC F4 | DISTRICT NAME ROCK ISLAND | DIVISION NAME NORTH CENTRAL | MONTHS REPORTED | | | | | | | | | |
|---------------------------|------------------------------|--------------------------------|-----------------|-----------------|----------------|---------------|----------------|------------------|------------------|-----------------|-----------------|--------------------|
| | | | 10/83 | | | 11/83 | | | 12/83 | | | |
| RIVER/LOCK NAME | TONS | VESSEL RECRTN | VESSEL OTHER | VESSEL TOTAL | BARCS EMPTY | BARCS FULL | BARCS TOTAL | LOCKGS CONFER | LOCKGS RECRTN | LOCKGS OTHER | LOCKGS TOTAL | TONNAGE (KTONS) |
| (NAV, OPN, ETC) | | | | | | | | | | | | |
| ILLINOIS | | | | | | | | | | | | |
| THOMAS J O'BRIEN | XXX | | | | | | | | | | | |
| UPBOUND STATISTICS | 326 | 340 | 45 | 711 | 297 | 679 | 976 | 367 | 148 | 5 | 520 | 998 |
| DOWNBOUND STATISTICS | 311 | 1052 | 60 | 1423 | 474 | 461 | 935 | 369 | 345 | 6 | 720 | 679 |
| TOTALS | 637 | 1392 | 105 | 2134 | 771 | 1140 | 1911 | 736 | 493 | 11 | 1240 | 1678 |
| LOCKPORT LOCK | XXX | | | | | | | | | | | |
| UPBOUND STATISTICS | 487 | 13 | 55 | 555 | 504 | 2009 | 2513 | 549 | 7 | 2 | 558 | 2998 |
| DOWNBOUND STATISTICS | 512 | 115 | 55 | 682 | 1511 | 1092 | 2603 | 585 | 53 | 0 | 638 | 1732 |
| TOTALS | 999 | 128 | 110 | 1237 | 2015 | 3101 | 5116 | 1134 | 60 | 2 | 1196 | 4730 |
| BRANDON ROAD LOCK & DAM | XXX | | | | | | | | | | | |
| UPBOUND STATISTICS | 480 | 13 | 58 | 551 | 532 | 2055 | 2587 | 549 | 9 | 3 | 581 | 3078 |
| DOWNBOUND STATISTICS | 479 | 115 | 53 | 647 | 1434 | 1123 | 2557 | 561 | 62 | 3 | 626 | 1756 |
| TOTALS | 959 | 128 | 111 | 1198 | 1966 | 3178 | 5144 | 1130 | 71 | 6 | 1207 | 4834 |
| DRESDEN ISLAND LOCK & DAM | XXX | | | | | | | | | | | |
| UPBOUND STATISTICS | 436 | 55 | 40 | 531 | 608 | 2151 | 2759 | 577 | 26 | 7 | 610 | 3269 |
| DOWNBOUND STATISTICS | 430 | 123 | 37 | 590 | 1395 | 1298 | 2693 | 554 | 66 | 7 | 627 | 2109 |
| TOTALS | 866 | 178 | 77 | 1121 | 2003 | 3449 | 5452 | 1131 | 92 | 14 | 1237 | 5378 |
| MARSELLES LOCK & DAM | XXX | | | | | | | | | | | |
| UPBOUND STATISTICS | 454 | 74 | 27 | 555 | 843 | 2104 | 2947 | 616 | 53 | 11 | 680 | 3341 |
| DOWNBOUND STATISTICS | 432 | 122 | 39 | 593 | 1267 | 1491 | 2758 | 587 | 83 | 8 | 678 | 2388 |
| TOTALS | 886 | 196 | 66 | 1148 | 2110 | 3595 | 5705 | 1203 | 136 | 19 | 1358 | 5730 |
| STARVED ROCK LOCK & DAM | XXX | | | | | | | | | | | |
| UPBOUND STATISTICS | 477 | 98 | 29 | 604 | 1182 | 2133 | 3315 | 674 | 45 | 21 | 740 | 3410 |
| DOWNBOUND STATISTICS | 447 | 135 | 35 | 617 | 1252 | 1766 | 3018 | 624 | 85 | 17 | 726 | 2769 |
| TOTALS | 924 | 233 | 64 | 1221 | 2434 | 3899 | 6333 | 1298 | 130 | 38 | 1466 | 6179 |
| PEDRIA LOCK & DAM | XXX | | | | | | | | | | | |
| UPBOUND STATISTICS | 501 | 40 | 48 | 589 | 2126 | 2459 | 4585 | 419 | 26 | 318 | 763 | 3921 |
| DOWNBOUND STATISTICS | 487 | 105 | 63 | 655 | 1445 | 2721 | 4166 | 402 | 67 | 310 | 779 | 4011 |
| TOTALS | 988 | 145 | 111 | 1244 | 3571 | 5180 | 8751 | 821 | 93 | 628 | 1542 | 7932 |

TABLE 2

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/83 THROUGH 12/83
INSTITUTE FOR WATER RESOURCES

| EROC F4 | DISTRICT NAME ROCK ISLAND | DIVISION NAME NORTH CENTRAL | MONTHS REPORTED | | | | | | | | | |
|---------------------------|--------------------------------|--------------------------------|-----------------|----------------|----------------|---------------|-----------------|------------------|------------------|-----------------|-----------------|--------------------|
| | | | 10/83 | | 11/83 | | 12/83 | | | | | |
| RIVER/LOCK NAME | TONS | VESSL RECRTN | VESSL OTHER | VESSL TOTAL | BARGS EMPTY | BARGS FULL | BARGES TOTAL | LOCKGS CONNER | LCKGES RECRTN | LCKGES OTHER | LCKGES TOTAL | TONNAGE (KTONS) |
| (NAV, OPN, ETC) | | | | | | | | | | | | |
| ILLINOIS | | | | | | | | | | | | |
| LACRANCE LOCK & DAM | XXX | | | | | | | | | | | |
| UPBOUND STATISTICS | 492 | 11 | 14 | 517 | 2603 | 2091 | 4694 | 437 | 5 | 261 | 703 | 3440 |
| DOWNBOUND STATISTICS | 492 | 93 | 14 | 599 | 1015 | 3246 | 4261 | 422 | 54 | 268 | 744 | 4781 |
| TOTALS | 984 | 104 | 28 | 1116 | 3618 | 5337 | 8955 | 859 | 59 | 529 | 1447 | 8222 |
| MISSISSIPPI RIVER | | | | | | | | | | | | |
| LOCK & DAM 11 | XXX | | | | | | | | | | | |
| UPBOUND STATISTICS | 289 | 98 | 87 | 474 | 1859 | 1123 | 2982 | 517 | 86 | 8 | 611 | 1668 |
| DOWNBOUND STATISTICS | 359 | 138 | 40 | 537 | 248 | 3808 | 4056 | 608 | 109 | 9 | 726 | 5369 |
| TOTALS | 648 | 236 | 127 | 1011 | 2107 | 4931 | 7038 | 1125 | 195 | 17 | 1337 | 7037 |
| LOCK & DAM 12 | XXX | | | | | | | | | | | |
| UPBOUND STATISTICS | 317 | 130 | 71 | 518 | 2062 | 1245 | 3307 | 540 | 100 | 7 | 647 | 1834 |
| DOWNBOUND STATISTICS | 400 | 175 | 20 | 595 | 269 | 4275 | 4544 | 667 | 147 | 9 | 823 | 6017 |
| TOTALS | 717 | 305 | 91 | 1113 | 2331 | 5520 | 7851 | 1207 | 247 | 16 | 1470 | 7852 |
| LOCK & DAM 13 | XXX | | | | | | | | | | | |
| UPBOUND STATISTICS | 315 | 143 | 77 | 535 | 2059 | 1242 | 3301 | 553 | 92 | 6 | 651 | 1860 |
| DOWNBOUND STATISTICS | 407 | 200 | 25 | 632 | 315 | 4269 | 4584 | 680 | 141 | 14 | 835 | 6012 |
| TOTALS | 722 | 343 | 102 | 1167 | 2374 | 5511 | 7885 | 1233 | 233 | 20 | 1486 | 7872 |
| LOCK & DAM 14 | XXX | | | | | | | | | | | |
| UPBOUND STATISTICS | 400 | 87 | 77 | 564 | 2729 | 1373 | 4102 | 682 | 58 | 13 | 753 | 2032 |
| DOWNBOUND STATISTICS | 502 | 134 | 18 | 654 | 321 | 5210 | 5531 | 846 | 112 | 13 | 971 | 7121 |
| TOTALS | 902 | 221 | 95 | 1218 | 3050 | 6583 | 9633 | 1528 | 170 | 26 | 1724 | 9154 |
| LOCK & DAM 14 AUXILIARY 1 | NO DATA RECORDED FOR THIS LOCK | | | | | | | | | | | |
| LOCK & DAM 15 | XXX | | | | | | | | | | | |
| UPBOUND STATISTICS | 374 | 3 | 72 | 449 | 2545 | 1408 | 3953 | 671 | 3 | 8 | 682 | 2100 |
| DOWNBOUND STATISTICS | 491 | 10 | 32 | 533 | 339 | 5085 | 5424 | 874 | 10 | 6 | 890 | 7120 |
| TOTALS | 865 | 13 | 104 | 982 | 2884 | 6493 | 9377 | 1545 | 13 | 14 | 1572 | 9221 |

TABLE 2

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/83 THROUGH 12/83
INSTITUTE FOR WATER RESOURCES

| EROC F4 | DISTRICT NAME ROCK ISLAND | DIVISION NAME NORTH CENTRAL | MONTHS REPORTED | | | | | | | | | | | |
|---------------------------|------------------------------|--------------------------------|--------------------------------|-----------------|----------------|----------------|----------------|---------------|-----------------|------------------|------------------|-----------------|-----------------|--------------------|
| | | | 10/83 | | 11/83 | | 12/83 | | | | | | | |
| RIVER/LOCK NAME | | | TONS | VESSL RECRTH | VESSL OTHER | VESSL TOTAL | BARGS EMPTY | BARGS FULL | BARGES TOTAL | LOCKGS CONNER | LCKGES RECRTH | LCKGES OTHER | LCKGES TOTAL | TONNAGE (KTONS) |
| (NAV, OPN, ETC) | | | | | | | | | | | | | | |
| MISSISSIPPI RIVER | | | | | | | | | | | | | | |
| LOCK & DAM 15 AUXILIARY 1 | | | XXX | | | | | | | | | | | |
| UPBOUND STATISTICS | | | 78 | 115 | 61 | 254 | 86 | 41 | 127 | 133 | 62 | 2 | 197 | 61 |
| DOWNBOUND STATISTICS | | | 71 | 150 | 38 | 259 | 60 | 40 | 100 | 110 | 88 | 1 | 199 | 55 |
| TOTALS | | | 149 | 265 | 99 | 513 | 146 | 81 | 227 | 243 | 150 | 3 | 396 | 117 |
| LOCK & DAM 16 | | | XXX | | | | | | | | | | | |
| UPBOUND STATISTICS | | | 431 | 26 | 113 | 570 | 2835 | 1596 | 4433 | 760 | 26 | 14 | 800 | 2375 |
| DOWNBOUND STATISTICS | | | 556 | 48 | 37 | 641 | 397 | 5622 | 6019 | 959 | 50 | 8 | 1017 | 7882 |
| TOTALS | | | 987 | 74 | 150 | 1211 | 3232 | 7220 | 10452 | 1719 | 76 | 22 | 1817 | 10257 |
| LOCK & DAM 17 | | | XXX | | | | | | | | | | | |
| UPBOUND STATISTICS | | | 432 | 3 | 85 | 520 | 2905 | 1775 | 4680 | 780 | 4 | 14 | 798 | 2631 |
| DOWNBOUND STATISTICS | | | 552 | 34 | 15 | 601 | 495 | 5872 | 6367 | 977 | 50 | 10 | 1037 | 8229 |
| TOTALS | | | 984 | 37 | 100 | 1121 | 3400 | 7647 | 11047 | 1757 | 54 | 24 | 1835 | 10860 |
| LOCK & DAM 18 | | | XXX | | | | | | | | | | | |
| UPBOUND STATISTICS | | | 429 | 17 | 104 | 550 | 2986 | 1772 | 4758 | 779 | 21 | 12 | 812 | 2624 |
| DOWNBOUND STATISTICS | | | 557 | 49 | 37 | 643 | 502 | 5998 | 6500 | 996 | 56 | 7 | 1059 | 8412 |
| TOTALS | | | 986 | 66 | 141 | 1193 | 3488 | 7770 | 11258 | 1775 | 77 | 19 | 1871 | 11036 |
| LOCK & DAM 19 | | | XXX | | | | | | | | | | | |
| UPBOUND STATISTICS | | | 420 | 15 | 123 | 558 | 3264 | 1683 | 4947 | 475 | 6 | 8 | 489 | 2511 |
| DOWNBOUND STATISTICS | | | 516 | 47 | 62 | 625 | 328 | 5993 | 6321 | 538 | 25 | 6 | 569 | 8423 |
| TOTALS | | | 936 | 62 | 185 | 1183 | 3592 | 7676 | 11268 | 1013 | 31 | 14 | 1058 | 10934 |
| LOCK & DAM 19 AUXILIARY 1 | | | NO DATA RECORDED FOR THIS LOCK | | | | | | | | | | | |
| LOCK & DAM 20 | | | XXX | | | | | | | | | | | |
| UPBOUND STATISTICS | | | 437 | 10 | 147 | 594 | 3346 | 1680 | 5026 | 815 | 11 | 23 | 849 | 2496 |
| DOWNBOUND STATISTICS | | | 522 | 47 | 91 | 660 | 328 | 5978 | 6306 | 955 | 46 | 17 | 1018 | 8370 |
| TOTALS | | | 959 | 57 | 238 | 1254 | 3674 | 7658 | 11332 | 1770 | 57 | 40 | 1867 | 10866 |
| LOCK & DAM 21 | | | XXX | | | | | | | | | | | |
| UPBOUND STATISTICS | | | 427 | 23 | 125 | 575 | 3378 | 1595 | 4973 | 805 | 22 | 22 | 849 | 2394 |
| DOWNBOUND STATISTICS | | | 537 | 44 | 60 | 641 | 235 | 6177 | 6412 | 975 | 53 | 17 | 1045 | 8465 |
| TOTALS | | | 964 | 67 | 185 | 1216 | 3613 | 7772 | 11385 | 1780 | 75 | 39 | 1894 | 11059 |

TABLE 2

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/83 THROUGH 12/83
INSTITUTE FOR WATER RESOURCES

| EROC F4 | DISTRICT NAME ROCK ISLAND | DIVISION NAME NORTH CENTRAL | MONTHS REPORTED | | | | | | | | | |
|-----------------|------------------------------|--------------------------------|-----------------|----------------|----------------|---------------|-----------------|------------------|------------------|-----------------|-----------------|--------------------|
| | | | 10/83 | | | 11/83 | | | 12/83 | | | |
| RIVER/LOCK NAME | | | | | | | | | | | | |
| | TONS | VESSL RECRTH | VESSL OTHER | VESSL TOTAL | BARGS EMPTY | BARGS FULL | BARGES TOTAL | LOCKGS COMMER | LCKGES RECRTH | LCKGES OTHER | LCKGES TOTAL | TONNAGE (KTONS) |
| (NAV, OPN, ETC) | | | | | | | | | | | | |

MISSISSIPPI RIVER

| LOCK & DAM 22 | | | | | | | | | | | | |
|----------------------|--------|-----|-----|------|------|------|-------|------|----|----|------|-------|
| xxx | | | | | | | | | | | | |
| UPBOUND STATISTICS | 418 | 33 | 115 | 566 | 3369 | 1634 | 5003 | 789 | 21 | 19 | 829 | 2442 |
| DOWNBOUND STATISTICS | 10 532 | 88 | 51 | 671 | 238 | 6231 | 6469 | 965 | 70 | 20 | 1055 | 8769 |
| TOTALS | 950 | 121 | 166 | 1237 | 3607 | 7865 | 11472 | 1754 | 91 | 39 | 1884 | 11211 |

TABLE 3

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/83 THROUGH 12/83
INSTITUTE FOR WATER RESOURCES

| EROC F4 | DISTRICT NAME ROCK ISLAND | DIVISION NAME NORTH CENTRAL | MONTHS REPORTED | | | | | | | | | | | | 10/83 | 11/83 | 12/83 | | | | | |
|---------------------------|--------------------------------|--------------------------------|--------------------------------|-----|-----|------------|-----|-----|-------------------------|-----|-----|-------|-----|-----|--------|-------|-------|-----------------|------|----------------|---------------------|-----------------------------|
| | | | ALL TIMES EXPRESSED IN MINUTES | | | | | | | | | | | | | | | | | | | |
| | | | APPROACH | | | LOCK ENTRY | | | PROCESSING TIME CHAMBER | | | EXIT | | | | | | : DELAYED DELAY | | | DELAY AVG MAX | DELAY MAX (ALL VSSLS) |
| | | | MIN | AVG | MAX | : MIN | AVG | MAX | : MIN | AVG | MAX | : MIN | AVG | MAX | | | | : | TONS | TIME (TONS) | | |
| ILLINOIS | | | | | | | | | | | | | | | | | | | | | | |
| THOMAS J O'BRIEN | 1 | 3 | 28 | 1 | 2 | 30 | 3 | 13 | 44 | 1 | 2 | 16 | : | 104 | 1464 | 14.1 | 131 | | | | | |
| LOCKPORT LOCK | 1 | 9 | 117 | 1 | 10 | 76 | 1 | 27 | 96 | 1 | 11 | 100 | : | 824 | 89844 | 109.0 | 1503 | | | | | |
| BRANDON ROAD LOCK & DAM | 1 | 12 | 431 | 1 | 10 | 43 | 4 | 19 | 9 | 1 | 12 | 400 | : | 783 | 60612 | 77.4 | 1445 | | | | | |
| DRESDEN ISLAND LOCK & DAM | 1 | 10 | 421 | 1 | 10 | 58 | 1 | 17 | 437 | 1 | 13 | 113 | : | 582 | 64255 | 110.4 | 1155 | | | | | |
| MARSHIELLES LOCK & DAM | 1 | 11 | 167 | 1 | 9 | 81 | 1 | 19 | 435 | 1 | 16 | 127 | : | 649 | 140810 | 217.0 | 1440 | | | | | |
| STARVED ROCK LOCK & DAM | 1 | 8 | 112 | 1 | 9 | 83 | 6 | 16 | 108 | 1 | 14 | 406 | : | 589 | 100385 | 170.4 | 1440 | | | | | |
| PEORIA LOCK & DAM | 1 | 6 | 423 | 1 | 8 | 57 | 1 | 7 | 43 | 1 | 12 | 154 | : | 618 | 75064 | 121.5 | 875 | | | | | |
| LAGRANGE LOCK & DAM | 1 | 7 | 90 | 1 | 8 | 45 | 1 | 6 | 421 | 1 | 14 | 136 | : | 646 | 88281 | 136.7 | 995 | | | | | |
| MISSISSIPPI RIVER | | | | | | | | | | | | | | | | | | | | | | |
| LOCK & DAM 11 | 1 | 8 | 139 | 1 | 8 | 85 | 4 | 10 | 68 | 1 | 15 | 398 | : | 439 | 84431 | 192.3 | 2118 | | | | | |
| LOCK & DAM 12 | 1 | 9 | 151 | 1 | 8 | 88 | 1 | 7 | 40 | 1 | 15 | 146 | : | 520 | 83334 | 160.3 | 2148 | | | | | |
| LOCK & DAM 13 | 1 | 6 | 149 | 1 | 8 | 407 | 1 | 10 | 105 | 1 | 17 | 134 | : | 533 | 118788 | 222.9 | 1565 | | | | | |
| LOCK & DAM 14 | 1 | 7 | 377 | 1 | 9 | 327 | 1 | 9 | 434 | 1 | 17 | 185 | : | 732 | 287226 | 392.4 | 2855 | | | | | |
| LOCK & DAM 14 AUXILIARY 1 | NO DATA RECORDED FOR THIS LOCK | | | | | | | | | | | | | | | | | | | | | |
| LOCK & DAM 15 | 1 | 10 | 105 | 1 | 9 | 97 | 1 | 11 | 302 | 1 | 19 | 183 | : | 688 | 181612 | 264.0 | 1682 | | | | | |
| LOCK & DAM 15 AUXILIARY 1 | 1 | 3 | 23 | 1 | 2 | 19 | 1 | 10 | 32 | 1 | 3 | 41 | : | 14 | 479 | 34.2 | 193 | | | | | |

TABLE 3

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/83 THROUGH 12/83
INSTITUTE FOR WATER RESOURCES

| EROC F4 | DISTRICT NAME ROCK ISLAND | | | DIVISION NAME NORTH CENTRAL | | | MONTHS REPORTED 10/8311/8312/83 | | | | | | | | | |
|--------------------------------|--------------------------------|----|---------------|--------------------------------|----|-------------------------|------------------------------------|----|---------------|---|----|-----------------|------|--------|--------|-------------|
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| ALL TIMES EXPRESSED IN MINUTES | | | | | | | | | | | | | | | | |
| APPROACH | | | LOCK ENTRY | | | PROCESSING TIME CHAMBER | | | EXIT | | | : DELAYED DELAY | | DELAY | DELAY | |
| | | | | | | | | | | | | : TONS | TIME | | | AVG |
| MIN AVG MAX : | | | MIN AVG MAX : | | | MIN AVG MAX : | | | MIN AVG MAX : | | | | | (TONS) | (TONS) | (ALL VSSLS) |
| | | | | | | | | | | | | | | | | |
| MISSISSIPPI RIVER | | | | | | | | | | | | | | | | |
| LOCK & DAM 16 | 1 | 8 | 309 | 1 | 9 | 50 | 3 | 9 | 79 | 1 | 18 | 111 : | 890 | 582235 | 654.2 | 6323 |
| LOCK & DAM 17 | 1 | 11 | 440 | 1 | 9 | 75 | 2 | 9 | 69 | 1 | 16 | 87 : | 899 | 407013 | 452.7 | 1785 |
| LOCK & DAM 18 | 1 | 8 | 110 | 1 | 10 | 172 | 3 | 8 | 100 | 1 | 18 | 405 : | 892 | 404788 | 453.8 | 5235 |
| LOCK & DAM 19 | 1 | 24 | 794 | 1 | 10 | 392 | 1 | 23 | 639 | 1 | 12 | 439 : | 750 | 274401 | 365.9 | 7450 |
| LOCK & DAM 19 AUXILIARY 1 | NO DATA RECORDED FOR THIS LOCK | | | | | | | | | | | | | | | |
| LOCK & DAM 20 | 1 | 7 | 306 | 1 | 9 | 270 | 2 | 7 | 76 | 1 | 17 | 394 : | 768 | 204136 | 265.8 | 9534 |
| LOCK & DAM 21 | 1 | 9 | 108 | 1 | 9 | 158 | 1 | 6 | 50 | 1 | 18 | 751 : | 818 | 176401 | 215.6 | 11653 |
| LOCK & DAM 22 | 1 | 9 | 432 | 1 | 10 | 70 | 1 | 6 | 60 | 1 | 20 | 434 : | 893 | 409685 | 458.8 | 2220 |

TABLE 1

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/83 THROUGH 12/83
INSTITUTE FOR WATER RESOURCES

| ERDC F5 | DISTRICT NAME ST. PAUL | DIVISION NAME NORTH CENTRAL | MONTHS REPORTED | | |
|-------------------|---------------------------------|--------------------------------|-----------------|-------|-------|
| | | | 10/83 | 11/83 | 12/83 |
| <hr/> | | | | | |
| RIVER | LCODE-LOCK NAME | LEN/WID/DRAFT (FT/FT/FT) | | | |
| MISSISSIPPI RIVER | 01-LOCK & DAM 1 MAIN CHBR 1 | 0400/0056/11.0 | | | |
| | 01-LOCK & DAM 1 MAIN CHBR 2 | 0400/0056/11.0 | | | |
| | 02-LOCK & DAM 2 | 0600/0110/11.0 | | | |
| | 02-LOCK & DAM 2 AUXILIARY 1 | 0500/0110/11.0 | | | |
| | 03-LOCK & DAM 3 | 0600/0110/11.0 | | | |
| | 04-LOCK & DAM 4 | 0600/0110/11.0 | | | |
| | 05-LOCK & DAM 5 | 0600/0110/11.0 | | | |
| | 06-LOCK & DAM 6 | 0600/0110/11.0 | | | |
| | 07-LOCK & DAM 7 | 0600/0110/11.0 | | | |
| | 08-LOCK & DAM 8 | 0600/0110/11.0 | | | |
| | 09-LOCK & DAM 9 | 0600/0110/11.0 | | | |
| | 10-LOCK & DAM 10 | 0600/0110/11.0 | | | |
| | 51-ST ANTHONY FALLS UPPER L & D | 0400/0056/11.0 | | | |
| | 52-ST ANTHONY FALLS LOWER L & D | 0400/0056/11.0 | | | |
| | 55-LOCK & DAM 5A | 0600/0110/11.0 | | | |

TABLE 2

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/83 THROUGH 12/83
INSTITUTE FOR WATER RESOURCES

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| EROC F5 | DISTRICT NAME ST. PAUL | DIVISION NAME NORTH CENTRAL | MONTHS REPORTED | | | | | | | | | | | |
|--------------------------|---------------------------|--------------------------------|--------------------------------|---------------------------------------|----------------|----------------|----------------|---------------|----------------|------------------|------------------|-----------------|------------------------------------|--------------------|
| | | | 10/83 | | 11/83 | | 12/83 | | | | | | | |
| RIVER/LOCK NAME | | | TONS | VESSL RECRTN | VESSL OTHER | VESSL TOTAL | BARCS EMPTY | BARCS FULL | BARCS TOTAL | LOCKGS CONMER | LCKGES RECRTN | LCKGES OTHER | LCKGES TOTAL (NAV, OPN, ETC) | TONNAGE (KTONS) |
| MISSISSIPPI RIVER | | | | | | | | | | | | | | |
| LOCK & DAM 1 MAIN CHBR 1 | | | XXX | ONLY FIRST AND SECOND MONTHS REPORTED | | | | | | | | | | |
| UPBOUND STATISTICS | | | 202 | 197 | 29 | 428 | 138 | 233 | 371 | 230 | 114 | 3 | 347 | 302 |
| DOWNBOUND STATISTICS | | | 213 | 239 | 13 | 465 | 189 | 208 | 397 | 229 | 119 | 4 | 352 | 302 |
| TOTALS | | | 415 | 436 | 42 | 893 | 327 | 441 | 768 | 459 | 233 | 7 | 699 | 604 |
| LOCK & DAM 1 MAIN CHBR 2 | | | NO DATA RECORDED FOR THIS LOCK | | | | | | | | | | | |
| LOCK & DAM 2 | | | XXX | | | | | | | | | | | |
| UPBOUND STATISTICS | | | 267 | 255 | 31 | 553 | 1632 | 635 | 2267 | 383 | 136 | 8 | 527 | 943 |
| DOWNBOUND STATISTICS | | | 298 | 199 | 7 | 504 | 79 | 2892 | 2971 | 466 | 112 | 7 | 585 | 4066 |
| TOTALS | | | 565 | 454 | 38 | 1057 | 1711 | 3527 | 5238 | 849 | 248 | 15 | 1112 | 5010 |
| LOCK & DAM 2 AUXILIARY 1 | | | NO DATA RECORDED FOR THIS LOCK | | | | | | | | | | | |
| LOCK & DAM 3 | | | XXX | | | | | | | | | | | |
| UPBOUND STATISTICS | | | 231 | 381 | 59 | 671 | 1370 | 638 | 2008 | 366 | 169 | 14 | 549 | 963 |
| DOWNBOUND STATISTICS | | | 263 | 376 | 33 | 672 | 81 | 2677 | 2758 | 411 | 181 | 14 | 606 | 3771 |
| TOTALS | | | 494 | 757 | 92 | 1343 | 1451 | 3315 | 4766 | 777 | 350 | 28 | 1155 | 4734 |
| LOCK & DAM 4 | | | XXX | | | | | | | | | | | |
| UPBOUND STATISTICS | | | 222 | 161 | 39 | 422 | 1429 | 652 | 2081 | 352 | 123 | 23 | 498 | 963 |
| DOWNBOUND STATISTICS | | | 266 | 170 | 7 | 443 | 73 | 2826 | 2899 | 414 | 169 | 24 | 607 | 3983 |
| TOTALS | | | 488 | 331 | 46 | 865 | 1502 | 3478 | 4980 | 766 | 292 | 47 | 1105 | 4947 |
| LOCK & DAM 5 | | | XXX | | | | | | | | | | | |
| UPBOUND STATISTICS | | | 219 | 108 | 31 | 358 | 1413 | 649 | 2062 | 350 | 83 | 21 | 454 | 966 |
| DOWNBOUND STATISTICS | | | 262 | 108 | 2 | 372 | 78 | 2815 | 2893 | 422 | 116 | 23 | 561 | 3976 |
| TOTALS | | | 481 | 216 | 33 | 730 | 1491 | 3464 | 4955 | 772 | 199 | 44 | 1015 | 4943 |
| LOCK & DAM 6 | | | XXX | | | | | | | | | | | |
| UPBOUND STATISTICS | | | 231 | 116 | 36 | 383 | 1693 | 703 | 2396 | 381 | 95 | 29 | 505 | 1043 |
| DOWNBOUND STATISTICS | | | 279 | 123 | 3 | 405 | 73 | 3235 | 3328 | 461 | 138 | 25 | 624 | 4581 |
| TOTALS | | | 510 | 239 | 39 | 788 | 1766 | 3958 | 5724 | 842 | 233 | 54 | 1129 | 5624 |

TABLE 2

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/83 THROUGH 12/83
INSTITUTE FOR WATER RESOURCES

| EROC F5 | DISTRICT NAME ST. PAUL | DIVISION NAME NORTH CENTRAL | MONTHS REPORTED | | | | | | | | | |
|------------------------------|---------------------------|---------------------------------------|-----------------|-------|-------|-------|--------|--------|--------|--------|--------|--------------------|
| | | | 10/83 | | 11/83 | | 12/83 | | | | | |
| RIVER/LOCK NAME | TONS | VESSL | VESSL | VESSL | BARGS | BARGS | BARGES | LOCKGS | LOCKGS | LOCKGS | LOCKGS | TONNAGE (KTONS) |
| | | RECRTN | OTHER | TOTAL | EMPTY | FULL | TOTAL | CONNER | RECRTN | OTHER | TOTAL | |
| (NAV, OPN, ETC) | | | | | | | | | | | | |
| MISSISSIPPI RIVER | | | | | | | | | | | | |
| LOCK & DAM 7 | XXX | | | | | | | | | | | |
| UPBOUND STATISTICS | 229 | 193 | 43 | 465 | 1684 | 696 | 2380 | 363 | 129 | 72 | 564 | 1017 |
| DOWNBOUND STATISTICS | 280 | 210 | 18 | 508 | 73 | 3247 | 3320 | 441 | 155 | 84 | 680 | 4579 |
| TOTALS | 509 | 403 | 61 | 973 | 1757 | 3943 | 5700 | 804 | 284 | 156 | 1244 | 5597 |
| LOCK & DAM 8 | XXX | | | | | | | | | | | |
| UPBOUND STATISTICS | 231 | 94 | 114 | 439 | 1695 | 797 | 2492 | 379 | 79 | 71 | 529 | 1203 |
| DOWNBOUND STATISTICS | 282 | 100 | 8 | 390 | 87 | 3366 | 3453 | 468 | 109 | 74 | 651 | 4735 |
| TOTALS | 513 | 194 | 122 | 829 | 1782 | 4163 | 5945 | 847 | 188 | 145 | 1180 | 5939 |
| LOCK & DAM 9 | XXX | | | | | | | | | | | |
| UPBOUND STATISTICS | 234 | 126 | 40 | 400 | 1533 | 1027 | 2560 | 394 | 107 | 20 | 521 | 1513 |
| DOWNBOUND STATISTICS | 291 | 138 | 4 | 433 | 246 | 3321 | 3567 | 487 | 142 | 26 | 655 | 4674 |
| TOTALS | 525 | 264 | 44 | 833 | 1779 | 4348 | 6127 | 881 | 249 | 46 | 1176 | 6188 |
| LOCK & DAM 10 | XXX | | | | | | | | | | | |
| UPBOUND STATISTICS | 295 | 148 | 65 | 508 | 1931 | 1044 | 2975 | 478 | 119 | 58 | 655 | 1530 |
| DOWNBOUND STATISTICS | 364 | 185 | 21 | 570 | 236 | 3852 | 4088 | 581 | 161 | 61 | 803 | 5425 |
| TOTALS | 659 | 333 | 86 | 1078 | 2167 | 4896 | 7063 | 1059 | 280 | 119 | 1458 | 6956 |
| ST ANTHONY FALLS UPPER L & D | XXX | ONLY FIRST AND SECOND MONTHS REPORTED | | | | | | | | | | |
| UPBOUND STATISTICS | 143 | 122 | 37 | 302 | 113 | 114 | 227 | 181 | 48 | 0 | 229 | 163 |
| DOWNBOUND STATISTICS | 162 | 157 | 18 | 337 | 111 | 147 | 258 | 178 | 56 | 0 | 234 | 209 |
| TOTALS | 305 | 279 | 55 | 639 | 224 | 261 | 485 | 359 | 104 | 0 | 463 | 372 |
| ST ANTHONY FALLS LOWER L & D | XXX | ONLY FIRST AND SECOND MONTHS REPORTED | | | | | | | | | | |
| UPBOUND STATISTICS | 198 | 136 | 27 | 361 | 146 | 208 | 354 | 224 | 55 | 1 | 280 | 253 |
| DOWNBOUND STATISTICS | 211 | 160 | 16 | 387 | 178 | 210 | 388 | 223 | 57 | 0 | 280 | 290 |
| TOTALS | 409 | 296 | 43 | 748 | 324 | 418 | 742 | 447 | 112 | 1 | 560 | 543 |
| LOCK & DAM 5A | XXX | | | | | | | | | | | |
| UPBOUND STATISTICS | 220 | 142 | 40 | 402 | 1411 | 657 | 2068 | 335 | 115 | 85 | 535 | 972 |
| DOWNBOUND STATISTICS | 262 | 140 | 10 | 412 | 75 | 2833 | 2908 | 397 | 138 | 89 | 624 | 3998 |
| TOTALS | 482 | 282 | 50 | 814 | 1486 | 3490 | 4976 | 732 | 253 | 174 | 1159 | 4971 |

TABLE 3

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/83 THROUGH 12/83
INSTITUTE FOR WATER RESOURCES

| EROC F5 | DISTRICT NAME ST. PAUL | | | DIVISION NAME NORTH CENTRAL | | | MONTHS REPORTED 10/8311/8312/83 | | | | | | | | | |
|--------------------------------|--------------------------------|-----|------------|--------------------------------|-----|-------------------------|------------------------------------|-----|------|-----|-----|------|-------------|------------|-----------------|------|
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| ALL TIMES EXPRESSED IN MINUTES | | | | | | | | | | | | | | | | |
| APPROACH | | | LOCK ENTRY | | | PROCESSING TIME CHAMBER | | | EXIT | | | DELA | DELA | DELA | DELA | |
| MIN | AVG | MAX | MIN | AVG | MAX | MIN | AVG | MAX | MIN | AVG | MAX | TONS | TIME (TONS) | AVG (TONS) | MAX (ALL VSSLS) | |
| MISSISSIPPI RIVER | | | | | | | | | | | | | | | | |
| LOCK & DAM 1 MAIN CHBR 1 | 1 | 3 | 17 | 1 | 5 | 18 | 6 | 11 | 33 | 1 | 5 | 31 | 64 | 1457 | 22.8 | 58 |
| LOCK & DAM 1 MAIN CHBR 2 | NO DATA RECORDED FOR THIS LOCK | | | | | | | | | | | | | | | |
| LOCK & DAM 2 | 1 | 8 | 94 | 1 | 9 | 119 | 5 | 10 | 55 | 1 | 13 | 110 | 332 | 36433 | 109.7 | 595 |
| LOCK & DAM 2 AUXILIARY 1 | NO DATA RECORDED FOR THIS LOCK | | | | | | | | | | | | | | | |
| LOCK & DAM 3 | 1 | 8 | 119 | 1 | 7 | 73 | 4 | 6 | 40 | 1 | 13 | 70 | 264 | 23352 | 88.5 | 712 |
| LOCK & DAM 4 | 1 | 8 | 305 | 1 | 8 | 64 | 4 | 6 | 55 | 1 | 14 | 91 | 236 | 18565 | 78.7 | 1048 |
| LOCK & DAM 5 | 1 | 8 | 216 | 1 | 8 | 180 | 4 | 8 | 56 | 1 | 14 | 125 | 230 | 21325 | 92.7 | 986 |
| LOCK & DAM 6 | 1 | 10 | 418 | 1 | 9 | 206 | 4 | 5 | 56 | 1 | 16 | 295 | 287 | 35132 | 122.4 | 1060 |
| LOCK & DAM 7 | 1 | 9 | 315 | 1 | 8 | 125 | 4 | 6 | 40 | 1 | 14 | 172 | 293 | 26246 | 89.6 | 457 |
| LOCK & DAM 8 | 1 | 8 | 93 | 1 | 8 | 104 | 4 | 7 | 57 | 1 | 16 | 374 | 302 | 41884 | 136.0 | 1055 |
| LOCK & DAM 9 | 1 | 10 | 160 | 1 | 8 | 102 | 1 | 6 | 36 | 1 | 16 | 148 | 226 | 22303 | 98.7 | 427 |
| LOCK & DAM 10 | 1 | 10 | 460 | 1 | 8 | 260 | 4 | 6 | 108 | 1 | 14 | 194 | 420 | 72482 | 172.6 | 1090 |
| ST ANTHONY FALLS UPPER L & D | 1 | 2 | 14 | 1 | 4 | 35 | 5 | 10 | 56 | 1 | 4 | 66 | 13 | 323 | 24.8 | 60 |
| ST ANTHONY FALLS LOWER L & D | 1 | 3 | 55 | 1 | 4 | 31 | 5 | 12 | 43 | 1 | 4 | 58 | 61 | 1238 | 20.3 | 119 |
| LOCK & DAM 5A | 1 | 7 | 97 | 1 | 7 | 88 | 4 | 6 | 22 | 1 | 12 | 78 | 254 | 20326 | 80.0 | 350 |

TABLE 1

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/83 THROUGH 12/83
INSTITUTE FOR WATER RESOURCES

| EROC | DISTRICT NAME | DIVISION NAME | MONTHS REPORTED | | |
|------------------|---------------------------------|---------------|--------------------------|-------|-------|
| | | | 10/83 | 11/83 | 12/83 |
| G2 | PORTLAND | NORTH PACIFIC | | | |
| <hr/> | | | | | |
| RIVER | LCODE-LOCK NAME | | LEN/WID/DRAFT (FT/FT/FT) | | |
| COLUMBIA RIVER | 01-BONNEVILLE LOCK & DAM | | 0500/0074/15.0 | | |
| | 02-THE DALLES DAM | | 0650/0084/15.0 | | |
| | 03-JOHN DAY LOCK & DAM | | 0650/0084/15.0 | | |
| WILLAMETTE RIVER | 11-WILLAMETTE FALLS LOCKS 1 - 4 | | 0200/0037/ 6.5 | | |
| | 15-WILLAMETTE FALLS GUARD LOCK | | 0200/0037/ 6.5 | | |

TABLE 2

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/83 THROUGH 12/83
INSTITUTE FOR WATER RESOURCES

| EROC G2 | DISTRICT NAME PORTLAND | DIVISION NAME NORTH PACIFIC | MONTHS REPORTED | | | | | | | | | |
|------------------------------|---------------------------|--------------------------------|-----------------|----------------|---------------|-----------------|------------------|------------------|-----------------|-----------------|--------------------|------|
| | | | 10/83 | | 11/83 | | 12/83 | | | | | |
| RIVER/LOCK NAME | | | | | | | | | | | | |
| TONS | VESSL RECRTN | VESSL OTHER | VESSL TOTAL | BARGS EMPTY | BARGS FULL | BARGES TOTAL | LOCKGS CONNER | LCKGES RECRTN | LCKGES OTHER | LCKGES TOTAL | TONNAGE (KTONS) | |
| (NAV, OPN, ETC) | | | | | | | | | | | | |
| COLUMBIA RIVER | | | | | | | | | | | | |
| BONNEVILLE LOCK & DAM | | | | | | | | | | | | |
| UPBOUND STATISTICS | 256 | 18 | 24 | 298 | 616 | 285 | 901 | 564 | 8 | 14 | 586 | 464 |
| DOWNBOUND STATISTICS | 271 | 13 | 20 | 304 | 64 | 877 | 941 | 615 | 15 | 10 | 640 | 1971 |
| TOTALS | 527 | 31 | 44 | 602 | 680 | 1162 | 1842 | 1179 | 23 | 24 | 1226 | 2435 |
| THE DALLES DAM | | | | | | | | | | | | |
| UPBOUND STATISTICS | 216 | 4 | 10 | 230 | 495 | 278 | 773 | 226 | 3 | 3 | 232 | 459 |
| DOWNBOUND STATISTICS | 218 | 5 | 2 | 225 | 61 | 722 | 783 | 223 | 4 | 5 | 232 | 1803 |
| TOTALS | 434 | 9 | 12 | 455 | 556 | 1000 | 1556 | 449 | 7 | 8 | 464 | 2262 |
| JOHN DAY LOCK & DAM | | | | | | | | | | | | |
| UPBOUND STATISTICS | 217 | 6 | 7 | 230 | 494 | 275 | 769 | 222 | 3 | 5 | 230 | 454 |
| DOWNBOUND STATISTICS | 216 | 6 | 8 | 230 | 58 | 717 | 775 | 222 | 3 | 5 | 230 | 1773 |
| TOTALS | 433 | 12 | 15 | 460 | 552 | 992 | 1544 | 444 | 6 | 10 | 460 | 2228 |
| WILLAMETTE RIVER | | | | | | | | | | | | |
| WILLAMETTE FALLS LOCKS 1 - 4 | | | | | | | | | | | | |
| UPBOUND STATISTICS | 99 | 21 | 17 | 137 | 22 | 129 | 151 | 159 | 29 | 1 | 189 | 35 |
| DOWNBOUND STATISTICS | 94 | 23 | 27 | 144 | 3 | 128 | 131 | 146 | 27 | 1 | 174 | 35 |
| TOTALS | 193 | 44 | 44 | 281 | 25 | 257 | 282 | 305 | 56 | 2 | 363 | 71 |
| WILLAMETTE FALLS GUARD LOCK | | | | | | | | | | | | |
| UPBOUND STATISTICS | 108 | 7 | 126 | 241 | 25 | 96 | 121 | 149 | 7 | 97 | 253 | 22 |
| DOWNBOUND STATISTICS | 103 | 10 | 146 | 259 | 10 | 93 | 103 | 141 | 7 | 99 | 247 | 28 |
| TOTALS | 211 | 17 | 272 | 500 | 35 | 189 | 224 | 290 | 14 | 196 | 500 | 50 |

TABLE 3

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/83 THROUGH 12/83
INSTITUTE FOR WATER RESOURCES

| EROC C2 | DISTRICT NAME PORTLAND | | | DIVISION NAME NORTH PACIFIC | | | MONTHS REPORTED 10/8311/8312/83 | | | | | | | | | | | | | |
|------------------------------|---------------------------|-----|----------------------|--------------------------------|-----|-------|------------------------------------|-----|-------|-----|-----|-----------------|-----|-------|--------|------|--------------------------------|--------|--------|-------------|
| | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | ALL TIMES EXPRESSED IN MINUTES | | | |
| APPROACH | | | LOCK PROCESSING TIME | | | | | | | | | : DELAYED DELAY | | DELAY | DELAY | | | | | |
| MIN | AVG | MAX | : MIN | AVG | MAX | : MIN | AVG | MAX | : MIN | AVG | MAX | : MIN | AVG | MAX | : TONS | TIME | AVG | MAX | | |
| | | | | | | | | | | | | | | | | | | (TONS) | (TONS) | (ALL VSSLS) |
| COLUMBIA RIVER | | | | | | | | | | | | | | | | | | | | |
| BONNEVILLE LOCK & DAM | 1 | 7 | 34 | 1 | 7 | 77 | 2 | 23 | 129 | 1 | 5 | 30 | : | 514 | 44349 | 86.3 | 440 | | | |
| THE DALLES DAM | 1 | 5 | 29 | 2 | 6 | 30 | 5 | 22 | 135 | 2 | 5 | 20 | : | 328 | 3736 | 11.4 | 75 | | | |
| JOHN DAY LOCK & DAM | 1 | 5 | 25 | 1 | 6 | 24 | 10 | 25 | 90 | 1 | 5 | 26 | : | 430 | 2403 | 5.6 | 79 | | | |
| WILLAMETTE RIVER | | | | | | | | | | | | | | | | | | | | |
| WILLAMETTE FALLS LOCKS 1 - 4 | 1 | 1 | 58 | 1 | 2 | 29 | 1 | 37 | 98 | 1 | 1 | 12 | : | 192 | 294 | 1.5 | 22 | | | |
| WILLAMETTE FALLS GUARD LOCK | 1 | 1 | 1 | 1 | 1 | 13 | 1 | 1 | 12 | 1 | 1 | 61 | : | 206 | 220 | 1.1 | 5 | | | |

TABLE 1

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/83 THROUGH 12/83
INSTITUTE FOR WATER RESOURCES

| EROC | DISTRICT NAME | DIVISION NAME | MONTHS REPORTED | | |
|------|---------------|---------------|-----------------|-------|-------|
| G3 | SEATTLE | NORTH PACIFIC | 10/83 | 11/83 | 12/83 |

| RIVER | LCODE-LOCK NAME | LEN/MID/DRAFT (FT/FT/FT) |
|------------------------|----------------------------------|--------------------------|
| LAKE WASHINGTON SHP CA | 01-HIRAN M CHITTENDEN LOCKS | 0825/0080/30.0 |
| | 01-HIRAN M CHITTENDEN LOCKS AUX1 | 0150/0026/25.0 |

TABLE 2

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/83 THROUGH 12/83
INSTITUTE FOR WATER RESOURCES

| EROC G3 | DISTRICT NAME SEATTLE | DIVISION NAME NORTH PACIFIC | MONTHS REPORTED | | | | | | | | | |
|-------------------------------|--------------------------|--------------------------------|-----------------|-------|-------|-------|--------|--------|--------|--------|--------|---------|
| | | | 10/83 | | | 11/83 | | | 12/83 | | | |
| RIVER/LOCK NAME | TONS | VESSL | VESSL | VESSL | BARGS | BARGS | BARGES | LOCKGS | LCKGES | LCKGES | LCKGES | TONNAGE |
| | | RECRTN | OTHER | TOTAL | EMPTY | FULL | TOTAL | CONNER | RECRTN | OTHER | TOTAL | (KTONS) |
| (NAV, OPN, ETC) | | | | | | | | | | | | |
| LAKE WASHINGTON SHP CA | | | | | | | | | | | | |
| HIRAM M CHITTENDEN LOCKS | | XXX | | | | | | | | | | |
| UPBOUND STATISTICS | 202 | 1063 | 628 | 1893 | 51 | 187 | 238 | 488 | 29 | 46 | 563 | 324 |
| DOWNBOUND STATISTICS | 247 | 715 | 864 | 1826 | 175 | 276 | 451 | 459 | 34 | 48 | 541 | 114 |
| TOTALS | 449 | 1778 | 1492 | 3719 | 226 | 463 | 689 | 947 | 63 | 94 | 1104 | 439 |
| HIRAM M CHITTENDEN LOCKS AUX1 | | XXX | | | | | | | | | | |
| UPBOUND STATISTICS | 50 | 2443 | 1020 | 3513 | 27 | 24 | 51 | 1163 | 648 | 97 | 1908 | 0 |
| DOWNBOUND STATISTICS | 45 | 2733 | 747 | 3525 | 28 | 17 | 45 | 965 | 779 | 94 | 1838 | 0 |
| TOTALS | 95 | 5176 | 1767 | 7038 | 55 | 41 | 96 | 2128 | 1427 | 191 | 3746 | 0 |

TABLE 3

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/83 THROUGH 12/83
INSTITUTE FOR WATER RESOURCES

| ERDC 63 | DISTRICT NAME | | | DIVISION NAME | | | MONTHS REPORTED | | |
|------------|---------------|--|--|---------------|--|--|-----------------|-------|-------|
| | SEATTLE | | | NORTH PACIFIC | | | 10/83 | 11/83 | 12/83 |

| ALL TIMES EXPRESSED IN MINUTES | | | | | | | | | | | | | |
|--------------------------------|-----|-----|----------------------|-----|-----|---------|-----|-----|---------------|-----|-----|--------|-------------|
| APPROACH | | | LOCK PROCESSING TIME | | | EXIT | | | DELAIED DELAY | | | DELAY | DELAY |
| | | | ENTRY | | | CHAMBER | | | TOMS | | | AVG | MAX |
| MIN | AVG | MAX | MIN | AVG | MAX | MIN | AVG | MAX | MIN | AVG | MAX | (TOMS) | (ALL VSSLS) |

LAKE WASHINGTON SHP CA

| | | | | | | | | | | | | | | | | |
|------------------------------|---|---|----|---|---|----|---|----|----|---|---|----|-----|------|------|-----|
| HIRAM N CHITTENDEN LOCKS | 1 | 3 | 25 | 1 | 4 | 68 | 2 | 15 | 89 | 1 | 5 | 56 | 422 | 9879 | 23.4 | 485 |
| HIRAM N CHITTENDEN LOCKS AUX | 1 | 1 | 10 | 1 | 2 | 23 | 1 | 4 | 73 | 1 | 5 | 35 | 15 | 108 | 7.2 | 121 |

TABLE 1

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/83 THROUGH 12/83
INSTITUTE FOR WATER RESOURCES

| EROC C4 | DISTRICT NAME WALLA WALLA | DIVISION NAME NORTH PACIFIC | MONTHS REPORTED | | |
|----------------|--------------------------------|--------------------------------|--------------------------|-------|-------|
| | | | 10/83 | 11/83 | 12/83 |
| <hr/> | | | | | |
| RIVER | LCODE-LOCK NAME | | LEN/WID/DRAFT (FT/FT/FT) | | |
| COLUMBIA RIVER | 24-MCNARY LOCK & DAM | | 0650/0084/14.0 | | |
| SNAKE RIVER | 01-ICE HARBOR LOCK & DAM | | 0650/0084/14.0 | | |
| | 02-LOWER MONUMENTAL LOCK & DAM | | 0650/0084/14.0 | | |
| | 03-LITTLE GOOSE LOCK & DAM | | 0650/0084/14.0 | | |
| | 04-LOWER GRANITE LOCK & DAM | | 0650/0084/14.0 | | |

TABLE 2

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/83 THROUGH 12/83
INSTITUTE FOR WATER RESOURCES

| EROC C4 | DISTRICT NAME WALLA WALLA | DIVISION NAME NORTH PACIFIC | MONTHS REPORTED | | | | | | | | | |
|-----------------------------|------------------------------|--------------------------------|-----------------|----------------|----------------|---------------|-----------------|------------------|------------------|-----------------|------------------------------------|--------------------|
| | | | 10/83 | | | 11/83 | | | 12/83 | | | |
| RIVER/LOCK NAME | TONS | VESSL RECRTN | VESSL OTHER | VESSL TOTAL | BARGS EMPTY | BARGS FULL | BARGES TOTAL | LOCKGS CONNER | LCKGES RECRTN | LCKGES OTHER | LCKGES TOTAL (NAV, OPN, ETC) | TONNAGE (KTONS) |
| COLUMBIA RIVER | | | | | | | | | | | | |
| MCNARY LOCK & DAM | xxx | | | | | | | | | | | |
| UPBOUND STATISTICS | 203 | 7 | 5 | 215 | 402 | 275 | 677 | 209 | 5 | 2 | 216 | 445 |
| DOWNBOUND STATISTICS | 203 | 8 | 7 | 218 | 69 | 617 | 686 | 213 | 5 | 1 | 219 | 1543 |
| TOTALS | 406 | 15 | 12 | 433 | 471 | 892 | 1363 | 422 | 10 | 3 | 435 | 1988 |
| SNAKE RIVER | | | | | | | | | | | | |
| ICE HARBOR LOCK & DAM | xxx | | | | | | | | | | | |
| UPBOUND STATISTICS | 193 | 21 | 57 | 271 | 435 | 44 | 479 | 242 | 14 | 1 | 257 | 23 |
| DOWNBOUND STATISTICS | 228 | 20 | 23 | 271 | 6 | 480 | 486 | 246 | 14 | 0 | 260 | 1236 |
| TOTALS | 421 | 41 | 80 | 542 | 441 | 524 | 965 | 488 | 28 | 1 | 517 | 1259 |
| LOWER MONUMENTAL LOCK & DAM | xxx | | | | | | | | | | | |
| UPBOUND STATISTICS | 135 | 4 | 3 | 142 | 388 | 44 | 432 | 141 | 3 | 3 | 147 | 19 |
| DOWNBOUND STATISTICS | 138 | 5 | 1 | 144 | 6 | 433 | 439 | 141 | 4 | 4 | 149 | 1091 |
| TOTALS | 273 | 9 | 4 | 286 | 394 | 477 | 871 | 282 | 7 | 7 | 296 | 1111 |
| LITTLE GOOSE LOCK & DAM | xxx | | | | | | | | | | | |
| UPBOUND STATISTICS | 134 | 8 | 2 | 144 | 375 | 44 | 419 | 139 | 6 | 4 | 149 | 22 |
| DOWNBOUND STATISTICS | 138 | 12 | 2 | 152 | 8 | 418 | 426 | 142 | 8 | 5 | 155 | 1045 |
| TOTALS | 272 | 20 | 4 | 296 | 383 | 462 | 845 | 281 | 14 | 9 | 304 | 1068 |
| LOWER GRANITE LOCK & DAM | xxx | | | | | | | | | | | |
| UPBOUND STATISTICS | 129 | 14 | 4 | 147 | 250 | 40 | 290 | 136 | 14 | 10 | 160 | 18 |
| DOWNBOUND STATISTICS | 127 | 13 | 9 | 149 | 9 | 282 | 291 | 138 | 10 | 8 | 156 | 644 |
| TOTALS | 256 | 27 | 13 | 296 | 259 | 322 | 581 | 274 | 24 | 18 | 316 | 662 |

TABLE 3

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/83 THROUGH 12/83
INSTITUTE FOR WATER RESOURCES

| EROC C4 | DISTRICT NAME HALLA HALLA | DIVISION NAME NORTH PACIFIC | MONTHS REPORTED | | | | | | | | | | | | | | | | |
|-----------------------------|------------------------------|--------------------------------|--------------------------------|-----|-----|------------|-----|-----|-------------------------|-----|-----|--------|-------|--------|-----------------|-------------|-------|-------|----|
| | | | 10/83 | | | | | | 11/83 | | | | 12/83 | | | | | | |
| | | | ALL TIMES EXPRESSED IN MINUTES | | | | | | | | | | | | | | | | |
| | | | APPROACH | | | LOCK ENTRY | | | PROCESSING TIME CHAMBER | | | EXIT | | | : DELAYED DELAY | | DELAY | DELAY | |
| MIN | AVG | MAX | : MIN | AVG | MAX | : MIN | AVG | MAX | : MIN | AVG | MAX | : TONS | TIME | (TONS) | (TONS) | (ALL VSSLS) | | | |
| COLUMBIA RIVER | | | | | | | | | | | | | | | | | | | |
| MCNARY LOCK & DAM | | | 1 | 5 | 24 | 1 | 6 | 25 | 10 | 16 | 40 | 1 | 7 | 18 | : | 405 | 2330 | 5.8 | 60 |
| SNAKE RIVER | | | | | | | | | | | | | | | | | | | |
| ICE HARBOR LOCK & DAM | | | 1 | 3 | 15 | 1 | 4 | 18 | 10 | 23 | 51 | 1 | 4 | 15 | : | 421 | 2084 | 5.0 | 68 |
| LOWER MONUMENTAL LOCK & DAM | | | 1 | 4 | 24 | 1 | 5 | 25 | 12 | 23 | 38 | 1 | 4 | 13 | : | 273 | 1485 | 5.4 | 50 |
| LITTLE GOOSE LOCK & DAM | | | 1 | 4 | 21 | 1 | 4 | 19 | 11 | 19 | 50 | 1 | 5 | 23 | : | 272 | 1215 | 4.5 | 40 |
| LOWER GRANITE LOCK & DAM | | | 1 | 3 | 20 | 2 | 5 | 23 | 9 | 11 | 38 | 2 | 4 | 11 | : | 256 | 1112 | 4.3 | 47 |

TABLE 1

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/83 THROUGH 12/83
INSTITUTE FOR WATER RESOURCES

PAGE 44

| EROC | DISTRICT NAME | DIVISION NAME | MONTHS REPORTED | | |
|------|---------------|---------------|-----------------|-------|-------|
| H1 | HUNTINGTON | OHIO RIVER | 10/83 | 11/83 | 12/83 |

| RIVER | LCODE-LOCK NAME | LEN/WID/DRAFT (FT/FT/FT) |
|---------------|----------------------------------|--------------------------|
| KANAWHA RIVER | 01-MINFIELD LOCKS & DAM MAIN 1 | 0360/0056/12.0 |
| | 01-MINFIELD LOCKS & DAM MAIN 2 | 0360/0056/12.0 |
| | 02-MARHET LOCKS & DAM MAIN 1 | 0360/0056/12.0 |
| | 02-MARHET LOCKS & DAM MAIN 2 | 0360/0056/12.0 |
| | 03-LONDON LOCKS & DAM MAIN 1 | 0360/0056/12.0 |
| | 03-LONDON LOCKS & DAM MAIN 2 | 0360/0056/12.0 |
| OHIO RIVER | 21-BELLEVILLE LOCKS & DAM | 1200/0110/12.0 |
| | 21-BELLEVILLE LOCKS & DAM AUX 1 | 0600/0110/12.0 |
| | 22-RACINE LOCKS & DAM | 1200/0110/12.0 |
| | 22-RACINE LOCKS & DAM AUX 1 | 0600/0110/12.0 |
| | 23-GALLIPOLIS LOCKS & DAM | 0600/0110/12.0 |
| | 23-GALLIPOLIS LOCKS & DAM AUX 1 | 0360/0110/12.0 |
| | 24-GREENUP LOCKS & DAM | 1200/0110/12.0 |
| | 24-GREENUP LOCKS & DAM AUX 1 | 0600/0110/12.0 |
| | 25-CAPT ANT MELDAHL LOCKS & DAM | 1200/0110/12.0 |
| | 25-CAPT ANT MELDAHL LK&DAM AUX 1 | 0600/0110/12.0 |
| | 72-WILLOW ISLAND LOCKS & DAM | 1200/0110/12.0 |
| | 72-WILLOW ISLAND LOCKS & DAM AUX | 0600/0110/12.0 |

TABLE 2

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/83 THROUGH 12/83
INSTITUTE FOR WATER RESOURCES

| EROC H1 | DISTRICT NAME HUNTINGTON | DIVISION NAME OHIO RIVER | MONTHS REPORTED | | | | | | | | | | | |
|-----------------------------|-----------------------------|-----------------------------|-----------------|----------------|----------------|----------------|---------------|-----------------|------------------|------------------|-----------------|-----------------|--------------------|--|
| | | | 10/83 | | 11/83 | | 12/83 | | | | | | | |
| RIVER/LOCK NAME | | | | | | | | | | | | | | |
| | | TONS | VESSL RECRTN | VESSL OTHER | VESSL TOTAL | BARGS EMPTY | BARGS FULL | BARGES TOTAL | LOCKGS COMMER | LCKGES RECRTN | LCKGES OTHER | LCKGES TOTAL | TONNAGE (KTONS) | |
| (NAV, OPN, ETC) | | | | | | | | | | | | | | |
| KANAWHA RIVER | | | | | | | | | | | | | | |
| WINFIELD LOCKS & DAM MAIN 1 | | xxx | | | | | | | | | | | | |
| UPBOUND STATISTICS | | 239 | 2 | 12 | 253 | 842 | 546 | 1368 | 914 | 3 | 11 | 928 | 837 | |
| DOWNBOUND STATISTICS | | 253 | 2 | 6 | 261 | 331 | 1240 | 1571 | 966 | 0 | 3 | 969 | 1377 | |
| TOTALS | | 492 | 4 | 18 | 514 | 1173 | 1786 | 2959 | 1880 | 3 | 14 | 1897 | 2214 | |
| WINFIELD LOCKS & DAM MAIN 2 | | xxx | | | | | | | | | | | | |
| UPBOUND STATISTICS | | 221 | 12 | 13 | 246 | 859 | 413 | 1272 | 740 | 15 | 12 | 767 | 504 | |
| DOWNBOUND STATISTICS | | 201 | 11 | 18 | 230 | 465 | 611 | 1076 | 683 | 22 | 18 | 723 | 706 | |
| TOTALS | | 422 | 23 | 31 | 476 | 1324 | 1024 | 2348 | 1423 | 37 | 30 | 1490 | 1211 | |
| MARNET LOCKS & DAM MAIN 1 | | xxx | | | | | | | | | | | | |
| UPBOUND STATISTICS | | 33 | 1 | 3 | 37 | 115 | 18 | 133 | 99 | 2 | 0 | 101 | 29 | |
| DOWNBOUND STATISTICS | | 31 | 1 | 7 | 39 | 7 | 133 | 140 | 115 | 3 | 0 | 118 | 165 | |
| TOTALS | | 64 | 2 | 10 | 76 | 122 | 151 | 273 | 214 | 5 | 0 | 219 | 195 | |
| MARNET LOCKS & DAM MAIN 2 | | xxx | | | | | | | | | | | | |
| UPBOUND STATISTICS | | 315 | 6 | 27 | 348 | 1244 | 213 | 1457 | 974 | 14 | 5 | 993 | 251 | |
| DOWNBOUND STATISTICS | | 309 | 6 | 37 | 352 | 179 | 1263 | 1442 | 978 | 11 | 0 | 989 | 1461 | |
| TOTALS | | 624 | 12 | 64 | 700 | 1423 | 1476 | 2899 | 1952 | 25 | 5 | 1982 | 1712 | |
| LONDON LOCKS & DAM MAIN 1 | | xxx | | | | | | | | | | | | |
| UPBOUND STATISTICS | | 30 | 1 | 6 | 37 | 79 | 0 | 79 | 59 | 1 | 1 | 61 | 0 | |
| DOWNBOUND STATISTICS | | 40 | 0 | 2 | 42 | 0 | 112 | 112 | 66 | 0 | 1 | 67 | 117 | |
| TOTALS | | 70 | 1 | 8 | 79 | 79 | 112 | 191 | 125 | 1 | 2 | 128 | 117 | |
| LONDON LOCKS & DAM MAIN 2 | | xxx | | | | | | | | | | | | |
| UPBOUND STATISTICS | | 136 | 6 | 12 | 154 | 359 | 6 | 365 | 239 | 9 | 1 | 249 | 5 | |
| DOWNBOUND STATISTICS | | 133 | 5 | 7 | 145 | 2 | 337 | 339 | 237 | 8 | 1 | 246 | 389 | |
| TOTALS | | 269 | 11 | 19 | 299 | 361 | 343 | 704 | 476 | 17 | 2 | 495 | 394 | |
| OHIO RIVER | | | | | | | | | | | | | | |
| BELLEVILLE LOCKS & DAM | | xxx | | | | | | | | | | | | |
| UPBOUND STATISTICS | | 406 | 0 | 6 | 412 | 908 | 3475 | 4383 | 409 | 0 | 2 | 411 | 5006 | |
| DOWNBOUND STATISTICS | | 378 | 2 | 12 | 392 | 1771 | 2405 | 4176 | 382 | 0 | 0 | 382 | 3567 | |
| TOTALS | | 784 | 2 | 18 | 804 | 2679 | 5880 | 8559 | 791 | 0 | 2 | 793 | 8573 | |

TABLE 2

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/83 THROUGH 12/83
INSTITUTE FOR WATER RESOURCES

| ERIC H1 | DISTRICT NAME HUNTINGTON | DIVISION NAME OHIO RIVER | | | | | | MONTHS REPORTED | | | | |
|------------------------------|-----------------------------|---------------------------------------|--------|--------|-------|-------|-----------------|-----------------|--------|--------|--------|--------------------|
| | | | | | | | | 10/83 | 11/83 | | 12/83 | |
| RIVER/LOCK NAME | TOMS | VESSEL | VESSEL | VESSEL | BARGE | BARGE | BARGES TOTAL | LOCKS | LOCKES | LOCKES | LOCKES | TONNAGE (KTONS) |
| | | RECRTN | OTHER | TOTAL | EMPTY | FULL | | CONNER | RECRTN | OTHER | TOTAL | |
| (NAV, OPN, ETC) | | | | | | | | | | | | |
| OHIO RIVER | | | | | | | | | | | | |
| BELLEVILLE LOCKS & DAM AUX 1 | XXX | | | | | | | | | | | |
| UPBOUND STATISTICS | 30 | 17 | 6 | 53 | 26 | 59 | 85 | 37 | 12 | 4 | 53 | 62 |
| DOWNBOUND STATISTICS | 47 | 25 | 12 | 84 | 90 | 51 | 141 | 59 | 17 | 3 | 79 | 45 |
| TOTALS | 77 | 42 | 18 | 137 | 116 | 110 | 226 | 96 | 29 | 7 | 132 | 107 |
| RACINE LOCKS & DAM | XXX | | | | | | | | | | | |
| UPBOUND STATISTICS | 444 | 1 | 9 | 454 | 1239 | 3540 | 4779 | 446 | 0 | 3 | 449 | 5122 |
| DOWNBOUND STATISTICS | 404 | 1 | 10 | 415 | 1760 | 2691 | 4451 | 408 | 0 | 1 | 409 | 3751 |
| TOTALS | 848 | 2 | 19 | 869 | 2999 | 6231 | 9230 | 854 | 0 | 4 | 858 | 8873 |
| RACINE LOCKS & DAM AUX 1 | XXX | | | | | | | | | | | |
| UPBOUND STATISTICS | 38 | 21 | 8 | 67 | 92 | 36 | 128 | 50 | 14 | 1 | 65 | 62 |
| DOWNBOUND STATISTICS | 63 | 23 | 9 | 95 | 108 | 107 | 215 | 74 | 17 | 2 | 93 | 100 |
| TOTALS | 101 | 44 | 17 | 162 | 200 | 143 | 343 | 124 | 31 | 3 | 158 | 162 |
| GALLIPOLIS LOCKS & DAM | XXX | | | | | | | | | | | |
| UPBOUND STATISTICS | 451 | 1 | 20 | 472 | 860 | 3344 | 4204 | 755 | 0 | 3 | 758 | 5053 |
| DOWNBOUND STATISTICS | 420 | 4 | 24 | 448 | 1703 | 2255 | 3958 | 702 | 1 | 1 | 704 | 3256 |
| TOTALS | 871 | 5 | 44 | 920 | 2563 | 5599 | 8162 | 1457 | 1 | 4 | 1462 | 8309 |
| GALLIPOLIS LOCKS & DAM AUX 1 | XXX | ONLY FIRST AND SECOND MONTHS REPORTED | | | | | | | | | | |
| UPBOUND STATISTICS | 22 | 15 | 8 | 45 | 34 | 45 | 79 | 37 | 16 | 6 | 59 | 74 |
| DOWNBOUND STATISTICS | 28 | 18 | 16 | 62 | 59 | 36 | 95 | 55 | 21 | 4 | 80 | 44 |
| TOTALS | 50 | 33 | 24 | 107 | 93 | 81 | 174 | 92 | 37 | 10 | 139 | 119 |
| GREENUP LOCKS & DAM | XXX | | | | | | | | | | | |
| UPBOUND STATISTICS | 511 | 0 | 6 | 517 | 3330 | 1815 | 5145 | 515 | 0 | 0 | 515 | 2793 |
| DOWNBOUND STATISTICS | 484 | 0 | 5 | 489 | 741 | 4093 | 4834 | 486 | 0 | 0 | 486 | 6111 |
| TOTALS | 995 | 0 | 11 | 1006 | 4071 | 5908 | 9979 | 1001 | 0 | 0 | 1001 | 8905 |
| GREENUP LOCKS & DAM AUX 1 | XXX | | | | | | | | | | | |
| UPBOUND STATISTICS | 70 | 222 | 38 | 330 | 111 | 47 | 158 | 109 | 109 | 0 | 218 | 65 |
| DOWNBOUND STATISTICS | 82 | 169 | 43 | 294 | 115 | 77 | 192 | 127 | 94 | 1 | 222 | 109 |
| TOTALS | 152 | 391 | 81 | 624 | 226 | 124 | 350 | 236 | 203 | 1 | 440 | 175 |

TABLE 2

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/83 THROUGH 12/83
INSTITUTE FOR WATER RESOURCES

| EROC H1 | DISTRICT NAME HUNTINGTON | DIVISION NAME OHIO RIVER | | MONTHS REPORTED | | | | | | | | |
|-------------------------------|-----------------------------|-----------------------------|----------------|-----------------|----------------|---------------|-----------------|------------------|------------------|-----------------|-----------------|--------------------|
| | | | | 10/83 | 11/83 | 12/83 | | | | | | |
| RIVER/LOCK NAME | TONS | VESSL RECRTN | VESSL OTHER | VESSL TOTAL | BARGS EMPTY | BARGS FULL | BARGES TOTAL | LOCKGS COMMER | LCKGES RECRTN | LCKGES OTHER | LCKGES TOTAL | TONNAGE (KTONS) |
| | | | | | | | | | | | | |
| OHIO RIVER | | | | | | | | | | | | |
| CAPT ANT MELDAHL LOCKS & DAM | XXX | | | | | | | | | | | |
| UPBOUND STATISTICS | 497 | 0 | 9 | 506 | 2971 | 2170 | 5141 | 499 | 0 | 0 | 499 | 3374 |
| DOWNBOUND STATISTICS | 473 | 1 | 6 | 480 | 766 | 4184 | 4950 | 476 | 0 | 0 | 476 | 6248 |
| TOTALS | 970 | 1 | 15 | 986 | 3737 | 6354 | 10091 | 975 | 0 | 0 | 975 | 9623 |
| CAPT ANT MELDAHL LK&DAM AUX 1 | XXX | | | | | | | | | | | |
| UPBOUND STATISTICS | 28 | 108 | 6 | 142 | 43 | 31 | 74 | 37 | 69 | 1 | 107 | 52 |
| DOWNBOUND STATISTICS | 48 | 148 | 9 | 205 | 80 | 53 | 133 | 58 | 96 | 0 | 154 | 63 |
| TOTALS | 76 | 256 | 15 | 347 | 123 | 84 | 207 | 95 | 165 | 1 | 261 | 116 |
| WILLOW ISLAND LOCKS & DAM | XXX | | | | | | | | | | | |
| UPBOUND STATISTICS | 404 | 1 | 5 | 410 | 1116 | 3196 | 4312 | 406 | 1 | 0 | 407 | 4449 |
| DOWNBOUND STATISTICS | 383 | 0 | 1 | 384 | 1525 | 2540 | 4065 | 385 | 0 | 0 | 385 | 3587 |
| TOTALS | 787 | 1 | 6 | 794 | 2641 | 5736 | 8377 | 791 | 1 | 0 | 792 | 8036 |
| WILLOW ISLAND LOCKS & DAM AUX | XXX | | | | | | | | | | | |
| UPBOUND STATISTICS | 57 | 18 | 24 | 99 | 145 | 35 | 180 | 86 | 13 | 2 | 101 | 42 |
| DOWNBOUND STATISTICS | 81 | 25 | 16 | 122 | 109 | 149 | 258 | 101 | 20 | 1 | 122 | 120 |
| TOTALS | 138 | 43 | 40 | 221 | 254 | 184 | 438 | 187 | 33 | 3 | 223 | 162 |

TABLE 3

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/83 THROUGH 12/83
INSTITUTE FOR WATER RESOURCES

| EROC H1 | DISTRICT NAME HUNTINGTON | | | | DIVISION NAME OHIO RIVER | | | | | | | | MONTHS REPORTED | | | | | | | | | | |
|--------------------------------|-----------------------------|--|--|---|-----------------------------|--|--|--|--|--|--|--------|-----------------|--|--|-----------------|-------|--|--|-------|-------|--|--|
| | | | | | | | | | | | | | 10/83 | | | | 11/83 | | | | 12/83 | | |
| ALL TIMES EXPRESSED IN MINUTES | | | | | | | | | | | | | | | | | | | | | | | |
| APPROACH | | | | LOCK PROCESSING TIME | | | | | | | | EXIT | | | | : DELAYED DELAY | | | | DELAY | | | |
| MIN AVG MAX | | | | : MIN AVG MAX : MIN AVG MAX : MIN AVG MAX : MIN AVG MAX | | | | | | | | : TONS | | | | TIME | | | | AVG | | | |
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TABLE 3

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/83 THROUGH 12/83
INSTITUTE FOR WATER RESOURCES

| EROC N1 | DISTRICT NAME | | | DIVISION NAME | | | MONTHS REPORTED | | | | | | | | |
|--------------------------------|---------------|-----|----------------------|---------------|-----|-------|-----------------|-----|-------|-------|-----|-----------------|-------|-------|-------|
| | HUNTINGTON | | | OHIO RIVER | | | 10/83 | | | 11/83 | | | 12/83 | | |
| ALL TIMES EXPRESSED IN MINUTES | | | | | | | | | | | | | | | |
| APPROACH | | | LOCK PROCESSING TIME | | | | | | EXIT | | | : DELAYED DELAY | | DELAY | DELAY |
| MIN | AVG | MAX | : MIN | AVG | MAX | : MIN | AVG | MAX | : MIN | AVG | MAX | : TONS | TIME | AVG | MAX |
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TABLE 1

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/83 THROUGH 12/83
INSTITUTE FOR WATER RESOURCES

PAGE 50

| EROC | DISTRICT NAME | DIVISION NAME | MONTHS REPORTED | | |
|------|---------------|---------------|-----------------|-------|-------|
| H2 | LOUISVILLE | OHIO RIVER | 10/83 | 11/83 | 12/83 |

| RIVER | LCODE-LOCK NAME | LEN/MID/DRAFT (FT/FT/FT) |
|--------------------|-------------------------------|--------------------------|
| GREEN/BARREN RIVER | 21-LOCK & DAM 1 | 0600/0004/12.0 |
| | 22-LOCK & DAM 2 | 0600/0004/12.0 |
| | 23-LOCK & DAM 3 | 0138/0036/12.0 |
| OHIO RIVER | 41-HARKLAND LOCKS & DAM | 1200/0110/12.0 |
| | 41-HARKLAND LOCKS & DAM AUX 1 | 0600/0110/12.0 |
| | 42-MCALPINE LOCKS & DAM | 1200/0110/12.0 |
| | 42-MCALPINE LOCKS & DAM AUX 1 | 0600/0110/12.0 |
| | 50-LOCK & DAM 50 | 0600/0110/12.0 |
| | 51-LOCK & DAM 51 | 0600/0110/12.0 |
| | 52-LOCK & DAM 52 | 1200/0110/12.0 |
| | 52-LOCK & DAM 52 AUX 1 | 0600/0110/12.0 |
| | 53-LOCK & DAM 53 | 0600/0110/12.0 |
| | 75-CANNELTON LOCK & DAM | 1200/0110/12.0 |
| | 75-CANNELTON LOCK & DAM AUX | 0600/0110/12.0 |
| | 76-HEMBURGH LOCK & DAM | 1200/0110/12.0 |
| | 76-HEMBURGH LOCK & DAM AUX 1 | 0600/0110/12.0 |
| | 77-UNIONTOWN LOCK & DAM | 1200/0110/12.0 |
| | 77-UNIONTOWN LOCK & DAM AUX 1 | 0600/0110/12.0 |
| | 78-SKITHLAND LOCK & DAM | 1200/0110/12.0 |
| | 78-SKITHLAND LOCK & DAM AUX 1 | 1200/0110/12.0 |

TABLE 2

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/83 THROUGH 12/83
INSTITUTE FOR WATER RESOURCES

| EROC H2 | DISTRICT NAME LOUISVILLE | DIVISION NAME OHIO RIVER | MONTHS REPORTED | | | | | | | | | |
|----------------------------|--------------------------------|-----------------------------|-----------------|-------|-------|-------|--------|--------|--------|--------|--------------------------|--------------------|
| | | | 10/83 | | | 11/83 | | | 12/83 | | | |
| RIVER/LOCK NAME | TOMS | VESSL | VESSL | VESSL | BARGS | BARGS | BARGES | LOCKGS | LCKGES | LCKGES | LCKGES | TONNAGE (KTONS) |
| | | RECRTN | OTHER | TOTAL | EMPTY | FULL | TOTAL | CONNER | RECRTN | OTHER | TOTAL (NAV, OPN, ETC) | |
| GREEN/BARREN RIVER | | | | | | | | | | | | |
| LOCK & DAM 1 | XXX | | | | | | | | | | | |
| UPBOUND STATISTICS | 485 | 16 | 10 | 511 | 1622 | 174 | 1796 | 434 | 8 | 61 | 503 | 256 |
| DOWNBOUND STATISTICS | 474 | 17 | 15 | 506 | 115 | 1657 | 1772 | 438 | 9 | 53 | 500 | 2485 |
| TOTALS | 959 | 33 | 25 | 1017 | 1737 | 1831 | 3568 | 872 | 17 | 114 | 1003 | 2741 |
| LOCK & DAM 2 | XXX | | | | | | | | | | | |
| UPBOUND STATISTICS | 372 | 15 | 3 | 390 | 1401 | 14 | 1415 | 375 | 11 | 0 | 386 | 18 |
| DOWNBOUND STATISTICS | 368 | 13 | 12 | 393 | 16 | 1401 | 1417 | 381 | 10 | 0 | 391 | 2080 |
| TOTALS | 740 | 28 | 15 | 783 | 1417 | 1415 | 2832 | 756 | 21 | 0 | 777 | 2098 |
| LOCK & DAM 3 | NO DATA RECORDED FOR THIS LOCK | | | | | | | | | | | |
| OHIO RIVER | | | | | | | | | | | | |
| MARKLAND LOCKS & DAM | XXX | | | | | | | | | | | |
| UPBOUND STATISTICS | 504 | 0 | 4 | 508 | 2420 | 2675 | 5095 | 507 | 0 | 0 | 507 | 4228 |
| DOWNBOUND STATISTICS | 477 | 4 | 3 | 484 | 1071 | 3734 | 4805 | 481 | 2 | 0 | 483 | 5667 |
| TOTALS | 981 | 4 | 7 | 992 | 3491 | 6409 | 9900 | 988 | 2 | 0 | 990 | 9895 |
| MARKLAND LOCKS & DAM AUX 1 | XXX | | | | | | | | | | | |
| UPBOUND STATISTICS | 32 | 216 | 10 | 258 | 41 | 32 | 73 | 43 | 96 | 3 | 142 | 57 |
| DOWNBOUND STATISTICS | 42 | 244 | 21 | 307 | 80 | 23 | 103 | 59 | 123 | 2 | 184 | 34 |
| TOTALS | 74 | 460 | 31 | 565 | 121 | 55 | 176 | 102 | 219 | 5 | 326 | 91 |
| MCALPINE LOCKS & DAM | XXX | | | | | | | | | | | |
| UPBOUND STATISTICS | 556 | 32 | 75 | 663 | 1850 | 3295 | 5145 | 609 | 12 | 2 | 623 | 5184 |
| DOWNBOUND STATISTICS | 575 | 64 | 57 | 696 | 1464 | 3482 | 4946 | 613 | 33 | 2 | 648 | 5259 |
| TOTALS | 1131 | 96 | 132 | 1359 | 3314 | 6777 | 10091 | 1222 | 45 | 4 | 1271 | 10443 |
| MCALPINE LOCKS & DAM AUX 1 | NO DATA RECORDED FOR THIS LOCK | | | | | | | | | | | |

TABLE 2

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/83 THROUGH 12/83
INSTITUTE FOR WATER RESOURCES

| EROC #2 | DISTRICT NAME LOUISVILLE | DIVISION NAME OHIO RIVER | MONTHS REPORTED | | | | | | | | | |
|--------------------------|---|-----------------------------|-----------------|-------|-------|-------|--------|--------|--------|--------|--------------------------|--------------------|
| | | | 10/83 | | | 11/83 | | | 12/83 | | | |
| ----- | | | | | | | | | | | | |
| RIVER/LOCK NAME | TOMS | VESSL | VESSL | VESSL | BARGS | BARGS | BARGES | LOCKGS | LCKGES | LCKGES | LCKGES | TONNAGE (KTONS) |
| | | RECRTN | OTHER | TOTAL | EMPTY | FULL | TOTAL | CONNER | RECRTN | OTHER | TOTAL (NAV, OPN, ETC) | |
| ----- | | | | | | | | | | | | |
| OHIO RIVER | | | | | | | | | | | | |
| LOCK & DAM 50 | NO DATA RECORDED FOR THIS LOCK | | | | | | | | | | | |
| LOCK & DAM 51 | NO DATA RECORDED FOR THIS LOCK | | | | | | | | | | | |
| LOCK & DAM 52 | *** | | | | | | | | | | | |
| UPBOUND STATISTICS | 891 | 2 | 79 | 972 | 4923 | 4472 | 9395 | 289 | 0 | 643 | 932 | 6895 |
| DOWNBOUND STATISTICS | 895 | 8 | 88 | 991 | 2397 | 6582 | 8979 | 320 | 2 | 643 | 965 | 9417 |
| TOTALS | 1786 | 10 | 167 | 1963 | 7320 | 11054 | 18374 | 609 | 2 | 1286 | 1897 | 16313 |
| LOCK & DAM 52 AUX 1 | *** ONLY FIRST AND SECOND MONTHS REPORTED | | | | | | | | | | | |
| UPBOUND STATISTICS | 200 | 9 | 47 | 256 | 365 | 547 | 912 | 239 | 6 | 2 | 247 | 923 |
| DOWNBOUND STATISTICS | 173 | 20 | 39 | 232 | 218 | 573 | 791 | 207 | 14 | 2 | 223 | 877 |
| TOTALS | 373 | 29 | 86 | 488 | 583 | 1120 | 1703 | 446 | 20 | 4 | 470 | 1800 |
| LOCK & DAM 53 | NO DATA RECORDED FOR THIS LOCK | | | | | | | | | | | |
| CANNELTON LOCK & DAM | *** | | | | | | | | | | | |
| UPBOUND STATISTICS | 535 | 7 | 6 | 548 | 1855 | 3480 | 5335 | 540 | 2 | 0 | 542 | 5443 |
| DOWNBOUND STATISTICS | 509 | 2 | 6 | 517 | 1423 | 3716 | 5139 | 515 | 0 | 0 | 515 | 5401 |
| TOTALS | 1044 | 9 | 12 | 1065 | 3278 | 7196 | 10474 | 1055 | 2 | 0 | 1057 | 10844 |
| CANNELTON LOCK & DAM AUX | *** | | | | | | | | | | | |
| UPBOUND STATISTICS | 31 | 25 | 11 | 67 | 113 | 15 | 128 | 43 | 12 | 3 | 58 | 21 |
| DOWNBOUND STATISTICS | 51 | 60 | 10 | 121 | 56 | 107 | 163 | 59 | 32 | 2 | 93 | 137 |
| TOTALS | 82 | 85 | 21 | 188 | 169 | 122 | 291 | 102 | 44 | 5 | 151 | 158 |
| NEWBURN LOCK & DAM | *** | | | | | | | | | | | |
| UPBOUND STATISTICS | 635 | 8 | 20 | 663 | 2656 | 3575 | 6231 | 640 | 2 | 2 | 644 | 5642 |
| DOWNBOUND STATISTICS | 617 | 20 | 29 | 666 | 1816 | 4145 | 5961 | 622 | 4 | 0 | 626 | 5965 |
| TOTALS | 1252 | 28 | 49 | 1329 | 4472 | 7720 | 12192 | 1262 | 6 | 2 | 1270 | 11608 |
| NEWBURN LOCK & DAM AUX 1 | *** | | | | | | | | | | | |
| UPBOUND STATISTICS | 71 | 166 | 53 | 290 | 65 | 133 | 198 | 108 | 79 | 1 | 188 | 213 |
| DOWNBOUND STATISTICS | 89 | 191 | 33 | 313 | 172 | 50 | 222 | 110 | 90 | 2 | 202 | 71 |
| TOTALS | 160 | 357 | 86 | 603 | 237 | 183 | 420 | 218 | 169 | 3 | 390 | 285 |

TABLE 2

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/83 THROUGH 12/83
INSTITUTE FOR WATER RESOURCES

| EROC H2 | DISTRICT NAME LOUISVILLE | DIVISION NAME OHIO RIVER | MONTHS REPORTED | | | | | | | | | |
|----------------------------|-----------------------------|-----------------------------|-----------------|-------|-------|-------|--------|--------|--------|--------|--------|---------|
| | | | 10/83 | | | 11/83 | | | 12/83 | | | |
| RIVER/LOCK NAME | TONS | VESSL | VESSL | VESSL | BARGS | BARGS | BARGES | LOCKGS | LCKGES | LCKGES | LCKGES | TONNAGE |
| | | RECRTN | OTHER | TOTAL | EMPTY | FULL | TOTAL | COMMER | RECRTN | OTHER | TOTAL | (KTONS) |
| (NAV, OPN, ETC) | | | | | | | | | | | | |
| OHIO RIVER | | | | | | | | | | | | |
| UNIONTOWN LOCK & DAM | xxx | | | | | | | | | | | |
| UPBOUND STATISTICS | 688 | 26 | 31 | 745 | 4375 | 3076 | 7451 | 690 | 3 | 1 | 694 | 4939 |
| DOWNBOUND STATISTICS | 654 | 10 | 14 | 678 | 1374 | 5686 | 7060 | 660 | 2 | 2 | 664 | 8458 |
| TOTALS | 1342 | 36 | 45 | 1423 | 5749 | 8762 | 14511 | 1350 | 5 | 3 | 1358 | 13397 |
| UNIONTOWN LOCK & DAM AUX 1 | xxx | | | | | | | | | | | |
| UPBOUND STATISTICS | 40 | 173 | 17 | 230 | 93 | 25 | 118 | 54 | 135 | 2 | 191 | 40 |
| DOWNBOUND STATISTICS | 34 | 193 | 45 | 272 | 63 | 24 | 87 | 64 | 152 | 1 | 217 | 33 |
| TOTALS | 74 | 366 | 62 | 502 | 156 | 49 | 205 | 118 | 287 | 3 | 408 | 73 |
| SMITHLAND LOCK & DAM | xxx | | | | | | | | | | | |
| UPBOUND STATISTICS | 135 | 9 | 18 | 162 | 671 | 380 | 1051 | 147 | 6 | 8 | 161 | 612 |
| DOWNBOUND STATISTICS | 680 | 59 | 43 | 782 | 1063 | 5913 | 6976 | 705 | 31 | 13 | 749 | 8887 |
| TOTALS | 815 | 68 | 61 | 944 | 1734 | 6293 | 8027 | 852 | 37 | 21 | 910 | 9500 |
| SMITHLAND LOCK & DAM AUX 1 | xxx | | | | | | | | | | | |
| UPBOUND STATISTICS | 705 | 55 | 33 | 793 | 4766 | 2723 | 7489 | 720 | 18 | 10 | 748 | 4383 |
| DOWNBOUND STATISTICS | 133 | 23 | 15 | 171 | 325 | 934 | 1259 | 145 | 17 | 7 | 169 | 1424 |
| TOTALS | 838 | 78 | 48 | 964 | 5091 | 3657 | 8748 | 865 | 35 | 17 | 917 | 5808 |

TABLE 3

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/83 THROUGH 12/83
INSTITUTE FOR WATER RESOURCES

PAGE 54

| EROC H2 | DISTRICT NAME LOUISVILLE | | | DIVISION NAME OHIO RIVER | | | MONTHS REPORTED | | | | | | | | | | | | | | | | |
|----------------------------|--------------------------------|-----|-----|-----------------------------|-----|-----|--------------------------------|-----|-----|------------|----|-------|-------------------------|-----|--------|-------|--------|--------|-------------|--------------|------------|-----------|-----------|
| | | | | | | | 10/83 | | | | | 11/83 | | | | | 12/83 | | | | | | |
| | | | | | | | ALL TIMES EXPRESSED IN MINUTES | | | | | | | | | | | | | | | | |
| | | | | | | | APPROACH | | | LOCK ENTRY | | | PROCESSING TIME CHAMBER | | | EXIT | | | : | DELAYED TONS | DELAY TIME | DELAY AVG | DELAY MAX |
| MIN | AVG | MAX | : | MIN | AVG | MAX | : | MIN | AVG | MAX | : | MIN | AVG | MAX | : | | (TONS) | (TONS) | (ALL VSSLS) | | | | |
| GREEN/BARREN RIVER | | | | | | | | | | | | | | | | | | | | | | | |
| LOCK & DAM 1 | 1 | 5 | 65 | 1 | 3 | 10 | 1 | 7 | 69 | 1 | 4 | 50 | : | 123 | 2576 | 20.9 | 106 | | | | | | |
| LOCK & DAM 2 | 1 | 4 | 22 | 1 | 3 | 15 | 5 | 11 | 77 | 1 | 4 | 27 | : | 108 | 3407 | 31.5 | 1240 | | | | | | |
| LOCK & DAM 3 | NO DATA RECORDED FOR THIS LOCK | | | | | | | | | | | | | | | | | | | | | | |
| OHIO RIVER | | | | | | | | | | | | | | | | | | | | | | | |
| MARKLAND LOCKS & DAM | 1 | 23 | 102 | 1 | 8 | 50 | 3 | 13 | 44 | 2 | 9 | 70 | : | 450 | 27222 | 60.5 | 661 | | | | | | |
| MARKLAND LOCKS & DAM AUX 1 | 1 | 10 | 81 | 1 | 3 | 24 | 5 | 12 | 22 | 1 | 5 | 15 | : | 5 | 115 | 23.0 | 75 | | | | | | |
| MCALPINE LOCKS & DAM | 1 | 18 | 115 | 1 | 9 | 37 | 5 | 12 | 45 | 1 | 8 | 66 | : | 602 | 34339 | 57.0 | 743 | | | | | | |
| MCALPINE LOCKS & DAM AUX 1 | NO DATA RECORDED FOR THIS LOCK | | | | | | | | | | | | | | | | | | | | | | |
| LOCK & DAM 50 | NO DATA RECORDED FOR THIS LOCK | | | | | | | | | | | | | | | | | | | | | | |
| LOCK & DAM 51 | NO DATA RECORDED FOR THIS LOCK | | | | | | | | | | | | | | | | | | | | | | |
| LOCK & DAM 52 | 1 | 5 | 95 | 1 | 6 | 32 | 1 | 7 | 80 | 1 | 8 | 75 | : | 584 | 431596 | 739.0 | 6680 | | | | | | |
| LOCK & DAM 52 AUX 1 | 1 | 12 | 88 | 1 | 11 | 50 | 5 | 15 | 55 | 1 | 12 | 100 | : | 250 | 209423 | 837.7 | 5910 | | | | | | |
| LOCK & DAM 53 | NO DATA RECORDED FOR THIS LOCK | | | | | | | | | | | | | | | | | | | | | | |
| CANNELTON LOCK & DAM | 1 | 26 | 110 | 2 | 7 | 30 | 5 | 11 | 50 | 1 | 8 | 40 | : | 491 | 31593 | 64.3 | 425 | | | | | | |
| CANNELTON LOCK & DAM AUX | 1 | 20 | 85 | 1 | 4 | 20 | 5 | 10 | 21 | 1 | 4 | 25 | : | 6 | 456 | 76.0 | 160 | | | | | | |
| MEMBURGH LOCK & DAM | 1 | 16 | 79 | 1 | 8 | 30 | 5 | 7 | 56 | 1 | 10 | 76 | : | 522 | 21132 | 40.5 | 230 | | | | | | |

TABLE 3

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/83 THROUGH 12/83
INSTITUTE FOR WATER RESOURCES

| EROC H2 | DISTRICT NAME LOUISVILLE | DIVISION NAME OHIO RIVER | MONTHS REPORTED | | | | | | | | | | | | 10/83 | 11/83 | 12/83 | | | | | | | | | | | | | | | | |
|----------------------------|-----------------------------|-----------------------------|--------------------------------|-----|-----|------------|-----|-----|-------------------------|-----|-----|-------|-----|-----|-------|-------|-------|-----------------|--------|-------------|-------|-------|---|----|-----|---|---|----|---|-----|-------|-------|------|
| | | | ALL TIMES EXPRESSED IN MINUTES | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | APPROACH | | | LOCK ENTRY | | | PROCESSING TIME CHAMBER | | | EXIT | | | | | | : DELAYED DELAY | | | DELAY | DELAY | | | | | | | | | | | |
| | | | MIN | AVG | MAX | : MIN | AVG | MAX | : MIN | AVG | MAX | : MIN | AVG | MAX | | | | : TONS | TIME | AVG | MAX | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | (TONS) | (TONS) | (ALL VSSLS) | | | | | | | | | | | | | |
| OHIO RIVER | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MEMBURGH LOCK & DAM AUX 1 | | | | | | | | | | | | | | | | | 1 | 9 | 44 | 1 | 3 | 25 | 5 | 7 | 12 | 1 | 5 | 20 | : | 6 | 69 | 11.5 | 25 |
| UNIONTOWN LOCK & DAM | | | | | | | | | | | | | | | | | 1 | 19 | 103 | 1 | 7 | 30 | 5 | 9 | 70 | 1 | 7 | 65 | : | 608 | 29429 | 48.4 | 279 |
| UNIONTOWN LOCK & DAM AUX 1 | | | | | | | | | | | | | | | | | 1 | 6 | 52 | 1 | 2 | 15 | 5 | 9 | 23 | 1 | 2 | 25 | : | 1 | 89 | 89.0 | 89 |
| SMITHLAND LOCK & DAM | | | | | | | | | | | | | | | | | 1 | 17 | 115 | 1 | 9 | 25 | 5 | 10 | 65 | 1 | 8 | 85 | : | 133 | 38765 | 291.5 | 2445 |
| SMITHLAND LOCK & DAM AUX 1 | | | | | | | | | | | | | | | | | 1 | 14 | 225 | 1 | 9 | 30 | 1 | 11 | 800 | 1 | 8 | 70 | : | 131 | 30287 | 231.2 | 2495 |

TABLE 1

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/83 THROUGH 12/83
INSTITUTE FOR WATER RESOURCES

| EROC K3 | DISTRICT NAME NASHVILLE | DIVISION NAME OHIO RIVER | MONTHS REPORTED | | |
|------------------|------------------------------|-----------------------------|--------------------------|-------|-------|
| | | | 10/83 | 11/83 | 12/83 |
| RIVER | LCODE-LOCK NAME | | LEN/WID/DRAFT (FT/FT/FT) | | |
| CLINCH RIVER | 11-MELTON HILL LOCK | | 0400/0075/11.0 | | |
| CUMBERLAND RIVER | 21-BARKLEY LOCK | | 0800/0110/11.0 | | |
| | 22-CHEATHAM LOCK | | 0800/0110/11.0 | | |
| | 23-CORDELL HULL LOCK | | 0400/0084/11.0 | | |
| | 24-OLD HICKORY LOCK | | 0400/0084/11.0 | | |
| TENNESSEE RIVER | 01-KENTUCKY LOCK | | 0600/0110/11.0 | | |
| | 02-PICKWICK LANDING LOCK | | 1000/0110/11.0 | | |
| | 02-PICKWICK LANDING LOCK AUX | | 0600/0110/11.0 | | |
| | 03-WILSON LOCK | | 0600/0110/11.0 | | |
| | 03-WILSON LOCK AUX | | 0292/0060/11.0 | | |
| | 04-GEN JOS WHEELER LOCK | | 0600/0110/11.0 | | |
| | 04-GEN JOS WHEELER LK | AUX1 | 0400/0060/11.0 | | |
| | 05-GUNTERSVILLE LOCK | | 0600/0110/11.0 | | |
| | 05-GUNTERSVILLE LOCK | AUX 1 | 0360/0060/11.0 | | |
| | 06-HICKAJAC LOCK | | 0600/0110/11.0 | | |
| | 07-CHICKAMAUGA LOCK | | 0360/0060/11.0 | | |
| | 08-HATTS BAR LOCK | | 0360/0060/11.0 | | |
| | 09-FORT LOUDON LOCK | | 0360/0060/11.0 | | |

TABLE 2

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/83 THROUGH 12/83
INSTITUTE FOR WATER RESOURCES

| EROC H3 | DISTRICT NAME NASHVILLE | DIVISION NAME OHIO RIVER | MONTHS REPORTED | | | | | | | | | | |
|----------------------|----------------------------|--------------------------------|------------------|----------------|----------------|----------------|---------------|-----------------|------------------|-------------------|-----------------|-----------------|--------------------|
| | | | 10/83 | | | 11/83 | | | 12/83 | | | | |
| RIVER/LOCK NAME | | TONS | VESSL RECR TN | VESSL OTHER | VESSL TOTAL | BARGS EMPTY | BARGS FULL | BARGES TOTAL | LOCKGS CONNER | LOCKGS RECR TN | LOCKGS OTHER | LOCKGS TOTAL | TONNAGE (KTONS) |
| (NAV, OPN, ETC) | | | | | | | | | | | | | |
| CLINCH RIVER | | | | | | | | | | | | | |
| MELTON HILL LOCK | | XXX | | | | | | | | | | | |
| UPBOUND STATISTICS | | 1 | 1 | 1 | 3 | 1 | 0 | 1 | 3 | 0 | 3 | 6 | 0 |
| DOWNBOUND STATISTICS | | 1 | 2 | 1 | 4 | 0 | 1 | 1 | 3 | 1 | 3 | 7 | 0 |
| TOTALS | | 2 | 3 | 2 | 7 | 1 | 1 | 2 | 6 | 1 | 6 | 13 | 0 |
| CUMBERLAND RIVER | | | | | | | | | | | | | |
| BARKLEY LOCK | | XXX | | | | | | | | | | | |
| UPBOUND STATISTICS | | 44 | 31 | 4 | 79 | 10 | 299 | 309 | 52 | 20 | 5 | 77 | 431 |
| DOWNBOUND STATISTICS | | 90 | 34 | 5 | 129 | 715 | 20 | 735 | 121 | 28 | 5 | 154 | 29 |
| TOTALS | | 134 | 65 | 9 | 208 | 725 | 319 | 1044 | 173 | 48 | 10 | 231 | 461 |
| CHEATHAM LOCK | | XXX | | | | | | | | | | | |
| UPBOUND STATISTICS | | 103 | 48 | 0 | 151 | 21 | 556 | 577 | 113 | 40 | 5 | 158 | 864 |
| DOWNBOUND STATISTICS | | 100 | 38 | 6 | 144 | 546 | 32 | 578 | 116 | 31 | 5 | 152 | 43 |
| TOTALS | | 203 | 86 | 6 | 295 | 567 | 588 | 1155 | 229 | 71 | 10 | 310 | 908 |
| CORDELL HULL LOCK | | NO DATA RECORDED FOR THIS LOCK | | | | | | | | | | | |
| OLD HICKORY LOCK | | XXX | | | | | | | | | | | |
| UPBOUND STATISTICS | | 42 | 112 | 13 | 167 | 9 | 92 | 101 | 64 | 75 | 6 | 145 | 147 |
| DOWNBOUND STATISTICS | | 32 | 112 | 21 | 165 | 88 | 2 | 90 | 64 | 78 | 9 | 151 | 38 |
| TOTALS | | 74 | 224 | 34 | 332 | 97 | 94 | 191 | 128 | 153 | 15 | 296 | 185 |
| TENNESSEE RIVER | | | | | | | | | | | | | |
| KENTUCKY LOCK | | XXX | | | | | | | | | | | |
| UPBOUND STATISTICS | | 449 | 24 | 52 | 525 | 989 | 3290 | 4279 | 753 | 26 | 9 | 788 | 4861 |
| DOWNBOUND STATISTICS | | 391 | 14 | 53 | 458 | 2448 | 1342 | 3790 | 653 | 17 | 7 | 677 | 1812 |
| TOTALS | | 840 | 38 | 105 | 983 | 3437 | 4632 | 8069 | 1406 | 43 | 16 | 1465 | 6673 |

TABLE 2

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/83 THROUGH 12/83
INSTITUTE FOR WATER RESOURCES

| EMC #3 | DISTRICT NAME NASHVILLE | | | DIVISION NAME OHIO RIVER | MONTHS REPORTED | | | | | | | | | | |
|---------------------------|----------------------------|--|--|--------------------------------|-----------------|----------------|----------------|----------------|---------------|-----------------|------------------|------------------|-----------------|-----------------|--------------------|
| | | | | | 10/83 | | 11/83 | | 12/83 | | | | | | |
| RIVER/LOCK NAME | | | | TONS | VESSL RECRTN | VESSL OTHER | VESSL TOTAL | BARGS EMPTY | BARGS FULL | BARGES TOTAL | LOCKGS COMMER | LCKGES RECRTN | LCKGES OTHER | LCKGES TOTAL | TONNAGE (KTONS) |
| (NAV, OPN, ETC) | | | | | | | | | | | | | | | |
| TENNESSEE RIVER | | | | | | | | | | | | | | | |
| PICKWICK LANDING LOCK | | | | XXX | | | | | | | | | | | |
| UPBOUND STATISTICS | | | | 242 | 37 | 18 | 297 | 220 | 2385 | 2605 | 410 | 43 | 34 | 487 | 3429 |
| DOWNBOUND STATISTICS | | | | 229 | 24 | 18 | 273 | 1887 | 522 | 2409 | 388 | 34 | 36 | 458 | 736 |
| TOTALS | | | | 471 | 63 | 36 | 570 | 2107 | 2907 | 5014 | 798 | 77 | 70 | 945 | 4166 |
| PICKWICK LANDING LOCK AUX | | | | NO DATA RECORDED FOR THIS LOCK | | | | | | | | | | | |
| WILSON LOCK | | | | XXX | | | | | | | | | | | |
| UPBOUND STATISTICS | | | | 125 | 87 | 56 | 268 | 239 | 1071 | 1310 | 236 | 54 | 18 | 308 | 1508 |
| DOWNBOUND STATISTICS | | | | 136 | 82 | 46 | 264 | 716 | 483 | 1199 | 232 | 57 | 13 | 302 | 644 |
| TOTALS | | | | 261 | 169 | 102 | 532 | 955 | 1554 | 2509 | 468 | 111 | 31 | 610 | 2173 |
| WILSON LOCK AUX | | | | NO DATA RECORDED FOR THIS LOCK | | | | | | | | | | | |
| GEN JOS WHEELER LOCK | | | | XXX | | | | | | | | | | | |
| UPBOUND STATISTICS | | | | 123 | 65 | 4 | 192 | 219 | 1050 | 1269 | 191 | 58 | 8 | 257 | 1471 |
| DOWNBOUND STATISTICS | | | | 118 | 42 | 6 | 166 | 745 | 450 | 1151 | 179 | 53 | 7 | 239 | 622 |
| TOTALS | | | | 241 | 107 | 10 | 358 | 964 | 1500 | 2420 | 370 | 111 | 15 | 496 | 2094 |
| GEN JOS WHEELER LK | | | | AUX1 | XXX | | | | | | | | | | |
| UPBOUND STATISTICS | | | | 0 | 28 | 0 | 28 | 0 | 0 | 0 | 0 | 21 | 0 | 21 | 0 |
| DOWNBOUND STATISTICS | | | | 0 | 48 | 0 | 48 | 0 | 0 | 0 | 0 | 28 | 0 | 28 | 0 |
| TOTALS | | | | 0 | 76 | 0 | 76 | 0 | 0 | 0 | 0 | 49 | 0 | 49 | 0 |
| GINTERSVILLE LOCK | | | | XXX | | | | | | | | | | | |
| UPBOUND STATISTICS | | | | 135 | 126 | 1 | 262 | 342 | 809 | 1151 | 189 | 83 | 5 | 277 | 1153 |
| DOWNBOUND STATISTICS | | | | 135 | 133 | 4 | 272 | 574 | 520 | 1094 | 181 | 94 | 2 | 277 | 678 |
| TOTALS | | | | 270 | 259 | 5 | 534 | 916 | 1329 | 2245 | 370 | 177 | 7 | 554 | 1831 |
| GINTERSVILLE LOCK | | | | AUX 1 | XXX | | | | | | | | | | |
| UPBOUND STATISTICS | | | | 0 | 67 | 0 | 67 | 0 | 0 | 0 | 1 | 52 | 0 | 53 | 0 |
| DOWNBOUND STATISTICS | | | | 0 | 60 | 0 | 60 | 0 | 0 | 0 | 0 | 45 | 0 | 45 | 0 |
| TOTALS | | | | 0 | 127 | 0 | 127 | 0 | 0 | 0 | 1 | 97 | 0 | 98 | 0 |

TABLE 2

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/83 THROUGH 12/83
INSTITUTE FOR WATER RESOURCES

| EROC H3 | DISTRICT NAME NASHVILLE | DIVISION NAME OHIO RIVER | MONTHS REPORTED | | | | | | | | | | | |
|----------------------|----------------------------|-----------------------------|-----------------|-----------------|----------------|----------------|----------------|---------------|----------------|------------------|------------------|------------------------------------|-----------------|--------------------|
| | | | 10/83 | | | 11/83 | | | 12/83 | | | | | |
| RIVER/LOCK NAME | | | TONS | VESSL RECRTN | VESSL OTHER | VESSL TOTAL | BARGS EMPTY | BARGS FULL | BARGS TOTAL | LOCKGS CONNER | LCKGES RECRTN | LCKGES OTHER (NAV, OPN, ETC) | LCKGES TOTAL | TONNAGE (KTONS) |
| TENNESSEE RIVER | | | | | | | | | | | | | | |
| NICKAJAC LOCK | | | XXX | | | | | | | | | | | |
| UPBOUND STATISTICS | | | 143 | 91 | 10 | 244 | 375 | 653 | 1028 | 192 | 47 | 3 | 242 | 882 |
| DOWNBOUND STATISTICS | | | 144 | 107 | 13 | 264 | 532 | 499 | 1031 | 197 | 56 | 1 | 254 | 678 |
| TOTALS | | | 287 | 198 | 23 | 508 | 907 | 1152 | 2059 | 389 | 103 | 4 | 496 | 1561 |
| CHICKAMAUGA LOCK | | | XXX | | | | | | | | | | | |
| UPBOUND STATISTICS | | | 52 | 447 | 3 | 502 | 53 | 231 | 284 | 117 | 234 | 118 | 469 | 317 |
| DOWNBOUND STATISTICS | | | 51 | 463 | 7 | 521 | 179 | 107 | 286 | 117 | 250 | 112 | 479 | 149 |
| TOTALS | | | 103 | 910 | 10 | 1023 | 232 | 338 | 570 | 234 | 484 | 230 | 948 | 466 |
| WATTS BAR LOCK | | | XXX | | | | | | | | | | | |
| UPBOUND STATISTICS | | | 42 | 57 | 0 | 99 | 72 | 86 | 158 | 101 | 100 | 10 | 211 | 135 |
| DOWNBOUND STATISTICS | | | 42 | 64 | 1 | 107 | 48 | 114 | 162 | 99 | 105 | 12 | 216 | 148 |
| TOTALS | | | 84 | 121 | 1 | 206 | 120 | 200 | 320 | 200 | 205 | 22 | 427 | 284 |
| FORT LOUDON LOCK | | | XXX | | | | | | | | | | | |
| UPBOUND STATISTICS | | | 30 | 45 | 3 | 78 | 15 | 53 | 68 | 54 | 55 | 11 | 120 | 91 |
| DOWNBOUND STATISTICS | | | 28 | 52 | 5 | 85 | 37 | 31 | 68 | 51 | 63 | 11 | 125 | 44 |
| TOTALS | | | 58 | 97 | 8 | 163 | 52 | 84 | 136 | 105 | 118 | 22 | 245 | 136 |

TABLE 3

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/83 THROUGH 12/83
INSTITUTE FOR WATER RESOURCES

| EROC H3 | DISTRICT NAME NASHVILLE | DIVISION NAME OHIO RIVER | MONTHS REPORTED | | | | | | | | | | | | | | | | |
|---------------------------|----------------------------|-----------------------------|--------------------------------|-----|-----|------------|-----|-----|-------------------------|-----|-----|-------|-----|-------|-----------------|-------------|------------|-----------------|------|
| | | | 10/83 | | | | | | 11/83 | | | | | 12/83 | | | | | |
| | | | ALL TIMES EXPRESSED IN MINUTES | | | | | | | | | | | | | | | | |
| | | | APPROACH | | | LOCK ENTRY | | | PROCESSING TIME CHAMBER | | | EXIT | | | : DELAYED DELAY | | DELAY | DELAY | |
| MIN | AVG | MAX | : MIN | AVG | MAX | : MIN | AVG | MAX | : MIN | AVG | MAX | : MIN | AVG | MAX | : TONS | TIME (TONS) | AVG (TONS) | MAX (ALL VSSLS) | |
| CLINCH RIVER | | | | | | | | | | | | | | | | | | | |
| MELTON HILL LOCK | | | 2 | 8 | 19 | 2 | 2 | 5 | 11 | 15 | 21 | 1 | 2 | 3 | : | 1 | 55 | 55.0 | 60 |
| CUMBERLAND RIVER | | | | | | | | | | | | | | | | | | | |
| BARKLEY LOCK | | | 1 | 14 | 52 | 1 | 9 | 25 | 7 | 16 | 39 | 1 | 9 | 36 | : | 9 | 793 | 88.1 | 480 |
| CHEATHAM LOCK | | | 1 | 9 | 40 | 2 | 10 | 88 | 6 | 19 | 62 | 1 | 8 | 52 | : | 20 | 679 | 34.0 | 166 |
| CORDELL HULL LOCK | | | NO DATA RECORDED FOR THIS LOCK | | | | | | | | | | | | | | | | |
| OLD HICKORY LOCK | | | 1 | 3 | 30 | 1 | 6 | 40 | 10 | 18 | 53 | 1 | 6 | 62 | : | 6 | 186 | 31.0 | 195 |
| TENNESSEE RIVER | | | | | | | | | | | | | | | | | | | |
| KENTUCKY LOCK | | | 1 | 9 | 91 | 1 | 14 | 66 | 11 | 18 | 55 | 1 | 18 | 121 | : | 660 | 188518 | 285.6 | 1188 |
| PICKWICK LANDING LOCK | | | 1 | 9 | 128 | 2 | 13 | 75 | 9 | 17 | 173 | 1 | 20 | 406 | : | 252 | 41103 | 163.1 | 1005 |
| PICKWICK LANDING LOCK AUX | | | NO DATA RECORDED FOR THIS LOCK | | | | | | | | | | | | | | | | |
| WILSON LOCK | | | 1 | 10 | 93 | 2 | 14 | 55 | 6 | 23 | 62 | 2 | 15 | 73 | : | 103 | 11891 | 115.4 | 487 |
| WILSON LOCK AUX | | | NO DATA RECORDED FOR THIS LOCK | | | | | | | | | | | | | | | | |
| GEN JOS WHEELER LOCK | | | 1 | 14 | 86 | 3 | 14 | 48 | 6 | 14 | 27 | 1 | 18 | 92 | : | 64 | 5676 | 88.7 | 262 |
| GEN JOS WHEELER LK | AUX | | 1 | 9 | 28 | 1 | 3 | 8 | 10 | 13 | 17 | 2 | 4 | 10 | : | 0 | 0 | 0.0 | 173 |
| GUNTERSVILLE LOCK | | | 1 | 10 | 98 | 1 | 10 | 192 | 6 | 15 | 30 | 1 | 15 | 199 | : | 68 | 5575 | 82.0 | 283 |
| GUNTERSVILLE LOCK | AUX | | 1 | 3 | 14 | 1 | 2 | 19 | 6 | 13 | 23 | 1 | 2 | 5 | : | 0 | 0 | 0.0 | 18 |
| NICKAJAC LOCK | | | 1 | 10 | 99 | 1 | 11 | 52 | 6 | 14 | 26 | 1 | 13 | 69 | : | 81 | 6230 | 76.9 | 285 |

TABLE 3

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/83 THROUGH 12/83
INSTITUTE FOR WATER RESOURCES

| EROC H3 | DISTRICT NAME NASHVILLE | | | DIVISION NAME OHIO RIVER | | | MONTHS REPORTED | | | | | | | | | | | | | | |
|------------------|----------------------------|-----|------------|-----------------------------|-----|-------------------------|--------------------------------|-----|-------|-----|-----|-----------------|------|-------|--------|--------|-------------|--|--|--|--|
| | | | | | | | 10/83 | | | | | 11/83 | | | | | 12/83 | | | | |
| | | | | | | | ALL TIMES EXPRESSED IN MINUTES | | | | | | | | | | | | | | |
| APPROACH | | | LOCK ENTRY | | | PROCESSING TIME CHAMBER | | | EXIT | | | : DELAYED DELAY | | DELAY | DELAY | | | | | | |
| MIN | AVG | MAX | : MIN | AVG | MAX | : MIN | AVG | MAX | : MIN | AVG | MAX | : TONS | TIME | AVG | MAX | | | | | | |
| | | | | | | | | | | | | | | | (TONS) | (TONS) | (ALL VSSLS) | | | | |
| TENNESSEE RIVER | | | | | | | | | | | | | | | | | | | | | |
| CHICKAWAUGA LOCK | 1 | 4 | 75 | 1 | 5 | 37 | 8 | 13 | 35 | 1 | 6 | 78 | : | 35 | 8834 | 252.4 | 998 | | | | |
| WATTS BAR LOCK | 1 | 8 | 75 | 1 | 5 | 20 | 11 | 16 | 23 | 1 | 9 | 58 | : | 15 | 1981 | 132.1 | 381 | | | | |
| FORT LOUDON LOCK | 1 | 10 | 70 | 1 | 4 | 16 | 7 | 21 | 27 | : | 9 | 75 | : | 10 | 338 | 33.8 | 187 | | | | |

TABLE 1

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/83 THROUGH 12/83
INSTITUTE FOR WATER RESOURCES

| EROC H4 | DISTRICT NAME PITTSBURGH | DIVISION NAME OHIO RIVER | MONTHS REPORTED | | |
|-------------------|----------------------------------|-----------------------------|-----------------|-------|-------|
| | | | 10/83 | 11/83 | 12/83 |
| RIVER | LCODE-LOCK NAME | LEN/WID/DRAFT (FT/FT/FT) | | | |
| ALLEGHENY RIVER | 42-LOCK & DAM 2 | 0360/0056/13.0 | | | |
| | 43-LOCK & DAM 3 | 0360/0056/13.0 | | | |
| | 44-LOCK & DAM 4 | 0360/0056/13.0 | | | |
| | 45-LOCK & DAM 5 | 0360/0056/13.0 | | | |
| | 46-LOCK & DAM 6 | 0360/0056/13.0 | | | |
| | 47-LOCK & DAM 7 | 0360/0056/13.0 | | | |
| | 48-LOCK & DAM 8 | 0360/0056/13.0 | | | |
| | 49-LOCK & DAM 9 | 0360/0056/13.0 | | | |
| MONONGAHELA RIVER | 22-LOCK & DAM 2 | 0720/0110/13.0 | | | |
| | 22-LOCK & DAM 2 AUX 1 | 0360/0056/13.0 | | | |
| | 23-LOCK & DAM 3 | 0720/0056/13.0 | | | |
| | 23-LOCK & DAM 3 AUXILIARY 1 | 0360/0056/13.0 | | | |
| | 24-LOCK & DAM 4 | 0720/0056/13.0 | | | |
| | 24-LOCK & DAM 4 AUXILIARY 1 | 0360/0056/13.0 | | | |
| | 25-MAXWELL LOCK & DAM | 0720/0084/13.0 | | | |
| | 25-MAXWELL LOCK & DAM AUX 1 | 0720/0084/13.0 | | | |
| | 27-LOCK & DAM 7 | 0360/0056/13.0 | | | |
| | 28-LOCK & DAM 8 | 0360/0056/13.0 | | | |
| | 29-MORGANTOWN LOCK & DAM | 0600/0084/13.0 | | | |
| | 30-HILDEBRAND LOCK & DAM | 0600/0084/13.0 | | | |
| OHIO RIVER | 31-OPEKISKA LOCK & DAM | 0600/0084/13.0 | | | |
| | 01-ENSWORTH LOCK & DAM | 0600/0110/13.0 | | | |
| | 01-ENSWORTH LOCK & DAM AUX 1 | 0360/0056/13.0 | | | |
| | 02-DASHIELDS LOCK & DAM | 0600/0110/13.0 | | | |
| | 02-DASHIELDS LOCK & DAM AUX 1 | 0360/0056/13.0 | | | |
| | 03-MONTGOMERY LOCK & DAM | 0600/0110/13.0 | | | |
| | 03-MONTGOMERY LOCK & DAM AUX 1 | 0360/0056/13.0 | | | |
| | 04-NEW CUMBERLAND LOCK & DAM | 1200/0110/13.0 | | | |
| | 04-NEW CUMBERLAND LK & DAM AUX 1 | 0600/0110/13.0 | | | |
| | 05-PIKE ISLAND LOCK & DAM | 1200/0110/13.0 | | | |
| | 05-PIKE ISLAND LOCK & DAM AUX 1 | 0600/0110/13.0 | | | |
| | 71-HANNIBAL LOCKS & DAM | 1200/0110/13.0 | | | |
| | 71-HANNIBAL LOCKS & DAM AUX 1 | 0600/0110/13.0 | | | |

TABLE 2

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/83 THROUGH 12/83
INSTITUTE FOR WATER RESOURCES

| EROC #4 | DISTRICT NAME PITTSBURGH | DIVISION NAME OHIO RIVER | | MONTHS REPORTED | | | | | | | | |
|----------------------|---|-----------------------------|----------------|-----------------|----------------|---------------|-----------------|------------------|------------------|-----------------|-----------------|--------------------|
| | | | | 10/83 | | | 11/83 | | | 12/83 | | |
| RIVER/LOCK NAME | TONS | VESSL RECRTN | VESSL OTHER | VESSL TOTAL | BARGS EMPTY | BARGS FULL | BARGES TOTAL | LOCKGS COMMER | LCKGES RECRTN | LCKGES OTHER | LCKGES TOTAL | TONNAGE (KTONS) |
| (NAV, OPN, ETC) | | | | | | | | | | | | |
| ALLEGHENY RIVER | | | | | | | | | | | | |
| LOCK & DAM 2 | XXX | | | | | | | | | | | |
| UPBOUND STATISTICS | 228 | 221 | 20 | 469 | 385 | 286 | 671 | 347 | 144 | 2 | 493 | 313 |
| DOWNBOUND STATISTICS | 219 | 214 | 26 | 459 | 284 | 347 | 631 | 332 | 153 | 3 | 488 | 201 |
| TOTALS | 447 | 435 | 46 | 928 | 669 | 633 | 1302 | 679 | 297 | 5 | 981 | 515 |
| LOCK & DAM 3 | XXX | | | | | | | | | | | |
| UPBOUND STATISTICS | 229 | 86 | 22 | 337 | 383 | 299 | 682 | 350 | 79 | 2 | 431 | 327 |
| DOWNBOUND STATISTICS | 226 | 90 | 24 | 340 | 305 | 349 | 654 | 338 | 84 | 2 | 424 | 199 |
| TOTALS | 455 | 176 | 46 | 677 | 688 | 648 | 1336 | 688 | 163 | 4 | 855 | 527 |
| LOCK & DAM 4 | XXX | | | | | | | | | | | |
| UPBOUND STATISTICS | 188 | 80 | 24 | 292 | 621 | 68 | 689 | 259 | 66 | 2 | 327 | 89 |
| DOWNBOUND STATISTICS | 192 | 92 | 15 | 299 | 78 | 613 | 691 | 254 | 68 | 2 | 324 | 311 |
| TOTALS | 380 | 172 | 39 | 591 | 699 | 681 | 1380 | 513 | 134 | 4 | 651 | 401 |
| LOCK & DAM 5 | XXX | | | | | | | | | | | |
| UPBOUND STATISTICS | 132 | 54 | 7 | 193 | 557 | 2 | 559 | 153 | 46 | 2 | 201 | 0 |
| DOWNBOUND STATISTICS | 136 | 64 | 2 | 202 | 20 | 551 | 571 | 157 | 51 | 2 | 210 | 233 |
| TOTALS | 268 | 118 | 9 | 395 | 577 | 553 | 1130 | 310 | 97 | 4 | 411 | 234 |
| LOCK & DAM 6 | XXX | | | | | | | | | | | |
| UPBOUND STATISTICS | 131 | 41 | 10 | 182 | 550 | 3 | 553 | 155 | 32 | 2 | 189 | 0 |
| DOWNBOUND STATISTICS | 141 | 35 | 1 | 177 | 27 | 551 | 578 | 162 | 26 | 2 | 190 | 233 |
| TOTALS | 272 | 76 | 11 | 359 | 577 | 554 | 1131 | 317 | 58 | 4 | 379 | 233 |
| LOCK & DAM 7 | XXX | | | | | | | | | | | |
| UPBOUND STATISTICS | 17 | 39 | 2 | 58 | 10 | 20 | 30 | 21 | 27 | 0 | 48 | 8 |
| DOWNBOUND STATISTICS | 14 | 35 | 3 | 52 | 20 | 8 | 28 | 19 | 21 | 0 | 40 | 3 |
| TOTALS | 31 | 74 | 5 | 110 | 30 | 28 | 58 | 40 | 48 | 0 | 88 | 11 |
| LOCK & DAM 8 | XXX ONLY FIRST AND SECOND MONTHS REPORTED | | | | | | | | | | | |
| UPBOUND STATISTICS | 0 | 25 | 0 | 25 | 0 | 0 | 0 | 3 | 12 | 0 | 15 | 0 |
| DOWNBOUND STATISTICS | 0 | 27 | 0 | 27 | 0 | 0 | 0 | 2 | 16 | 1 | 19 | 0 |
| TOTALS | 0 | 52 | 0 | 52 | 0 | 0 | 0 | 5 | 28 | 1 | 34 | 0 |

TABLE 2

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/83 THROUGH 12/83
INSTITUTE FOR WATER RESOURCES

| EROC WA | DISTRICT NAME PITTSBURGH | DIVISION NAME OHIO RIVER | MONTHS REPORTED | | | | | | | | | | |
|--------------------------|-----------------------------|-----------------------------|---------------------------|----------------|----------------|----------------|---------------|-----------------|------------------|------------------|-----------------|-----------------|--------------------|
| | | | 10/83 | | | 11/83 | | | 12/83 | | | | |
| RIVER/LOCK NAME | | TONS | VESSL RECRTN | VESSL OTHER | VESSL TOTAL | BARGS EMPTY | BARGS FULL | BARGES TOTAL | LOCKGS CONNER | LCKGES RECRTN | LCKGES OTHER | LCKGES TOTAL | TONNAGE (KTONS) |
| (NAV, OPN, ETC) | | | | | | | | | | | | | |
| ALLEGHENY RIVER | | | | | | | | | | | | | |
| LOCK & DAM 9 | | XXX | ONLY FIRST MONTH REPORTED | | | | | | | | | | |
| UPBOUND STATISTICS | | 0 | 12 | 0 | 12 | 0 | 0 | 0 | 0 | 9 | 0 | 9 | 0 |
| DOWNBOUND STATISTICS | | 0 | 13 | 0 | 13 | 0 | 0 | 0 | 2 | 10 | 0 | 12 | 0 |
| TOTALS | | 0 | 25 | 0 | 25 | 0 | 0 | 0 | 2 | 19 | 0 | 21 | 0 |
| MONONGAHELA RIVER | | | | | | | | | | | | | |
| LOCK & DAM 2 | | XXX | | | | | | | | | | | |
| UPBOUND STATISTICS | | 444 | 0 | 3 | 447 | 1809 | 902 | 2711 | 472 | 0 | 1 | 473 | 1133 |
| DOWNBOUND STATISTICS | | 446 | 0 | 1 | 447 | 466 | 2287 | 2753 | 472 | 0 | 0 | 472 | 2366 |
| TOTALS | | 890 | 0 | 4 | 894 | 2275 | 3189 | 5464 | 944 | 0 | 1 | 945 | 3500 |
| LOCK & DAM 2 AUX 1 | | XXX | | | | | | | | | | | |
| UPBOUND STATISTICS | | 145 | 43 | 62 | 250 | 108 | 107 | 215 | 212 | 32 | 3 | 247 | 80 |
| DOWNBOUND STATISTICS | | 128 | 36 | 72 | 236 | 139 | 53 | 192 | 201 | 30 | 3 | 234 | 62 |
| TOTALS | | 273 | 79 | 134 | 486 | 247 | 160 | 407 | 413 | 62 | 6 | 481 | 143 |
| LOCK & DAM 3 | | XXX | | | | | | | | | | | |
| UPBOUND STATISTICS | | 819 | 0 | 8 | 827 | 3665 | 530 | 4195 | 820 | 0 | 0 | 820 | 614 |
| DOWNBOUND STATISTICS | | 844 | 0 | 3 | 847 | 355 | 3861 | 4216 | 844 | 0 | 0 | 844 | 3832 |
| TOTALS | | 1663 | 0 | 11 | 1674 | 4020 | 4391 | 8411 | 1664 | 0 | 0 | 1664 | 4446 |
| LOCK & DAM 3 AUXILIARY 1 | | XXX | | | | | | | | | | | |
| UPBOUND STATISTICS | | 123 | 23 | 125 | 271 | 151 | 46 | 197 | 244 | 19 | 5 | 268 | 43 |
| DOWNBOUND STATISTICS | | 105 | 22 | 117 | 244 | 46 | 101 | 147 | 219 | 18 | 4 | 241 | 103 |
| TOTALS | | 228 | 45 | 242 | 515 | 197 | 147 | 344 | 463 | 37 | 9 | 509 | 147 |
| LOCK & DAM 4 | | XXX | | | | | | | | | | | |
| UPBOUND STATISTICS | | 669 | 0 | 5 | 674 | 3290 | 435 | 3725 | 700 | 0 | 1 | 701 | 440 |
| DOWNBOUND STATISTICS | | 716 | 0 | 1 | 717 | 263 | 3533 | 3796 | 734 | 0 | 0 | 734 | 3485 |
| TOTALS | | 1385 | 0 | 6 | 1391 | 3553 | 3968 | 7521 | 1434 | 0 | 1 | 1435 | 3925 |

TABLE 2

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/83 THROUGH 12/83
INSTITUTE FOR WATER RESOURCES

| EROC #4 | DISTRICT NAME PITTSBURGH | DIVISION NAME OHIO RIVER | MONTHS REPORTED | | | | | | | | | |
|--------------------------|-----------------------------|-----------------------------|-----------------|----------------|----------------|---------------|-----------------|------------------|------------------|-----------------|------------------------------------|--------------------|
| | | | 10/83 | | | 11/83 | | | 12/83 | | | |
| RIVER/LOCK NAME | TOMS | VESSL RECRTN | VESSL OTHER | VESSL TOTAL | BARGS EMPTY | BARGS FULL | BARGES TOTAL | LOCKGS CONNER | LCKGES RECRTN | LCKGES OTHER | LCKGES TOTAL (NAV, OPN, ETC) | TONNAGE (KTONS) |
| MONONGAMELA RIVER | | | | | | | | | | | | |
| LOCK & DAM 4 AUXILIARY 1 | XXX | | | | | | | | | | | |
| UPBOUND STATISTICS | 62 | 32 | 54 | 148 | 99 | 16 | 115 | 117 | 25 | 4 | 146 | 14 |
| DOWNBOUND STATISTICS | 27 | 31 | 42 | 100 | 26 | 18 | 44 | 68 | 27 | 3 | 98 | 18 |
| TOTALS | 89 | 63 | 96 | 248 | 125 | 34 | 159 | 185 | 52 | 7 | 244 | 33 |
| MAXWELL LOCK & DAM | XXX | | | | | | | | | | | |
| UPBOUND STATISTICS | 548 | 46 | 6 | 600 | 2691 | 320 | 3011 | 554 | 29 | 4 | 587 | 340 |
| DOWNBOUND STATISTICS | 138 | 25 | 15 | 178 | 43 | 679 | 722 | 153 | 14 | 4 | 171 | 658 |
| TOTALS | 686 | 71 | 21 | 778 | 2734 | 999 | 3733 | 707 | 43 | 8 | 758 | 998 |
| MAXWELL LOCK & DAM AUX 1 | XXX | | | | | | | | | | | |
| UPBOUND STATISTICS | 122 | 10 | 2 | 134 | 607 | 52 | 659 | 124 | 10 | 0 | 134 | 51 |
| DOWNBOUND STATISTICS | 507 | 24 | 7 | 538 | 163 | 2689 | 2852 | 513 | 16 | 0 | 529 | 2622 |
| TOTALS | 629 | 34 | 9 | 672 | 770 | 2741 | 3511 | 637 | 26 | 0 | 663 | 2674 |
| LOCK & DAM 7 | XXX | | | | | | | | | | | |
| UPBOUND STATISTICS | 525 | 9 | 25 | 559 | 2225 | 312 | 2537 | 976 | 10 | 8 | 994 | 341 |
| DOWNBOUND STATISTICS | 517 | 11 | 29 | 557 | 226 | 2319 | 2545 | 988 | 16 | 7 | 1011 | 2186 |
| TOTALS | 1042 | 20 | 54 | 1116 | 2451 | 2631 | 5082 | 1964 | 26 | 15 | 2005 | 2527 |
| LOCK & DAM 8 | XXX | | | | | | | | | | | |
| UPBOUND STATISTICS | 457 | 5 | 13 | 475 | 1923 | 308 | 2231 | 844 | 5 | 7 | 856 | 341 |
| DOWNBOUND STATISTICS | 454 | 8 | 20 | 482 | 217 | 2035 | 2252 | 858 | 10 | 7 | 875 | 1929 |
| TOTALS | 911 | 13 | 33 | 957 | 2140 | 2343 | 4483 | 1702 | 15 | 14 | 1731 | 2271 |
| MORGANTOWN LOCK & DAM | XXX | | | | | | | | | | | |
| UPBOUND STATISTICS | 46 | 15 | 7 | 68 | 197 | 10 | 207 | 53 | 14 | 4 | 71 | 9 |
| DOWNBOUND STATISTICS | 46 | 16 | 7 | 69 | 14 | 192 | 206 | 54 | 14 | 3 | 71 | 188 |
| TOTALS | 92 | 31 | 14 | 137 | 211 | 202 | 413 | 107 | 28 | 7 | 142 | 197 |
| HILDEBRAND LOCK & DAM | XXX | | | | | | | | | | | |
| UPBOUND STATISTICS | 23 | 13 | 9 | 45 | 53 | 10 | 63 | 31 | 13 | 3 | 47 | 9 |
| DOWNBOUND STATISTICS | 23 | 16 | 8 | 47 | 12 | 51 | 63 | 32 | 15 | 2 | 49 | 54 |
| TOTALS | 46 | 29 | 17 | 92 | 65 | 61 | 126 | 63 | 28 | 5 | 96 | 63 |

TABLE 2

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/83 THROUGH 12/83
INSTITUTE FOR WATER RESOURCES

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| ERDC W4 | DISTRICT NAME PITTSBURGH | DIVISION NAME OHIO RIVER | MONTHS REPORTED | | | | | | | | | | |
|----------------------------|-----------------------------|-----------------------------|-----------------|----------------|----------------|----------------|---------------|----------------|-----------------|------------------|-----------------|------------------------------------|--------------------|
| | | | 10/83 | | 11/83 | | 12/83 | | | | | | |
| RIVER/LOCK NAME | | TONS | VESSL RECRTN | VESSL OTHER | VESSL TOTAL | BARCS EMPTY | BARCS FULL | BARCS TOTAL | LOCKCS CONWR | LCKGES RECRTN | LCKGES OTHER | LCKGES TOTAL (NAV, OPN, ETC) | TONNAGE (KTONS) |
| MONONGAHELA RIVER | | | | | | | | | | | | | |
| OPEKISKA LOCK & DAM | | XXX | | | | | | | | | | | |
| UPBOUND STATISTICS | | 14 | 28 | 11 | 53 | 9 | 10 | 19 | 27 | 22 | 2 | 51 | 9 |
| DOWNBOUND STATISTICS | | 15 | 28 | 10 | 53 | 13 | 8 | 21 | 27 | 23 | 2 | 52 | 7 |
| TOTALS | | 29 | 56 | 21 | 106 | 22 | 18 | 40 | 54 | 45 | 4 | 103 | 16 |
| OHIO RIVER | | | | | | | | | | | | | |
| ENSNORTH LOCK & DAM | | XXX | | | | | | | | | | | |
| UPBOUND STATISTICS | | 560 | 19 | 62 | 641 | 1320 | 1790 | 3110 | 651 | 7 | 2 | 660 | 2029 |
| DOWNBOUND STATISTICS | | 566 | 20 | 67 | 653 | 1248 | 1937 | 3185 | 652 | 12 | 4 | 668 | 2087 |
| TOTALS | | 1126 | 39 | 129 | 1294 | 2568 | 3727 | 6295 | 1303 | 19 | 6 | 1328 | 4116 |
| ENSNORTH LOCK & DAM AUX 1 | | XXX | | | | | | | | | | | |
| UPBOUND STATISTICS | | 66 | 5 | 32 | 103 | 66 | 52 | 118 | 108 | 5 | 7 | 120 | 50 |
| DOWNBOUND STATISTICS | | 47 | 11 | 48 | 106 | 50 | 43 | 93 | 105 | 7 | 6 | 118 | 46 |
| TOTALS | | 113 | 16 | 80 | 209 | 116 | 95 | 211 | 213 | 12 | 13 | 238 | 97 |
| DASHIELDS LOCK & DAM | | XXX | | | | | | | | | | | |
| UPBOUND STATISTICS | | 492 | 0 | 19 | 511 | 1361 | 1840 | 3201 | 560 | 0 | 4 | 564 | 2087 |
| DOWNBOUND STATISTICS | | 500 | 0 | 20 | 520 | 1233 | 2071 | 3304 | 562 | 0 | 3 | 565 | 2244 |
| TOTALS | | 992 | 0 | 39 | 1031 | 2594 | 3911 | 6505 | 1122 | 0 | 7 | 1129 | 4331 |
| DASHIELDS LOCK & DAM AUX 1 | | XXX | | | | | | | | | | | |
| UPBOUND STATISTICS | | 105 | 22 | 77 | 204 | 73 | 88 | 161 | 185 | 16 | 6 | 207 | 92 |
| DOWNBOUND STATISTICS | | 94 | 35 | 88 | 217 | 101 | 27 | 128 | 187 | 24 | 7 | 218 | 28 |
| TOTALS | | 199 | 57 | 165 | 421 | 174 | 115 | 289 | 372 | 40 | 13 | 425 | 120 |
| MONTGOMERY LOCK & DAM | | XXX | | | | | | | | | | | |
| UPBOUND STATISTICS | | 431 | 2 | 28 | 461 | 1033 | 1877 | 2910 | 545 | 0 | 4 | 549 | 2281 |
| DOWNBOUND STATISTICS | | 432 | 1 | 31 | 464 | 1316 | 1660 | 2976 | 536 | 1 | 2 | 539 | 1906 |
| TOTALS | | 863 | 3 | 59 | 925 | 2349 | 3537 | 5886 | 1081 | 1 | 6 | 1088 | 4187 |

TABLE 2

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/83 THROUGH 12/83
INSTITUTE FOR WATER RESOURCES

| ERIC #4 | DISTRICT NAME PITTSBURGH | DIVISION NAME OHIO RIVER | | | | | MONTHS REPORTED | | | | | | |
|-------------------------------|-----------------------------|-----------------------------|----------------|----------------|----------------|----------------|-----------------|-----------------|-----------------|-----------------|-----------------|------------------------------------|--------------------|
| | | | | | | | 10/83 | 11/83 | 12/83 | | | | |
| RIVER/LOCK NAME | | TONS | VESSL RECTN | VESSL OTHER | VESSL TOTAL | BARGS EMPTY | BARGS FULL | BARGES TOTAL | LOCKGS CONNR | LCKGES RECTN | LCKGES OTHER | LCKGES TOTAL (NAV, OPN, ETC) | TONNAGE (KTONS) |
| OHIO RIVER | | | | | | | | | | | | | |
| MONTGOMERY LOCK & DAM AUX 1 | | XXX | | | | | | | | | | | |
| UPBOUND STATISTICS | | 111 | 53 | 52 | 216 | 200 | 257 | 457 | 285 | 48 | 9 | 342 | 291 |
| DOWNBOUND STATISTICS | | 102 | 44 | 51 | 197 | 178 | 194 | 372 | 244 | 45 | 8 | 297 | 213 |
| TOTALS | | 213 | 97 | 103 | 413 | 378 | 451 | 829 | 529 | 93 | 17 | 639 | 505 |
| NEW CUMBERLAND LOCK & DAM | | XXX | | | | | | | | | | | |
| UPBOUND STATISTICS | | 349 | 0 | 7 | 356 | 465 | 2757 | 3222 | 351 | 0 | 1 | 352 | 3905 |
| DOWNBOUND STATISTICS | | 315 | 2 | 4 | 321 | 1684 | 1238 | 2922 | 316 | 2 | 0 | 318 | 1503 |
| TOTALS | | 664 | 2 | 11 | 677 | 2149 | 3995 | 6144 | 667 | 2 | 1 | 670 | 5409 |
| NEW CUMBERLAND LK & DAM AUX 1 | | XXX | | | | | | | | | | | |
| UPBOUND STATISTICS | | 147 | 33 | 42 | 222 | 323 | 170 | 493 | 191 | 20 | 3 | 214 | 247 |
| DOWNBOUND STATISTICS | | 181 | 39 | 34 | 254 | 328 | 228 | 556 | 216 | 27 | 2 | 245 | 228 |
| TOTALS | | 328 | 72 | 76 | 476 | 651 | 398 | 1049 | 407 | 47 | 5 | 459 | 475 |
| PIKE ISLAND LOCK & DAM | | XXX | | | | | | | | | | | |
| UPBOUND STATISTICS | | 379 | 1 | 5 | 385 | 334 | 3500 | 3834 | 380 | 0 | 0 | 380 | 5022 |
| DOWNBOUND STATISTICS | | 335 | 0 | 7 | 342 | 2096 | 1319 | 3415 | 336 | 0 | 0 | 336 | 1750 |
| TOTALS | | 714 | 1 | 12 | 727 | 2430 | 4819 | 7249 | 716 | 0 | 0 | 716 | 6773 |
| PIKE ISLAND LOCK & DAM AUX 1 | | XXX | | | | | | | | | | | |
| UPBOUND STATISTICS | | 94 | 38 | 39 | 171 | 151 | 107 | 258 | 136 | 29 | 3 | 168 | 145 |
| DOWNBOUND STATISTICS | | 150 | 26 | 20 | 196 | 252 | 207 | 459 | 174 | 20 | 2 | 196 | 201 |
| TOTALS | | 244 | 64 | 59 | 367 | 403 | 314 | 717 | 310 | 49 | 5 | 364 | 346 |
| HANNIBAL LOCKS & DAM | | XXX | | | | | | | | | | | |
| UPBOUND STATISTICS | | 344 | 3 | 5 | 352 | 934 | 2968 | 3902 | 347 | 0 | 3 | 350 | 4172 |
| DOWNBOUND STATISTICS | | 323 | 0 | 2 | 325 | 1440 | 2247 | 3687 | 326 | 0 | 2 | 328 | 3056 |
| TOTALS | | 667 | 3 | 7 | 677 | 2374 | 5215 | 7589 | 673 | 0 | 5 | 678 | 7229 |
| HANNIBAL LOCKS & DAM AUX 1 | | XXX | | | | | | | | | | | |
| UPBOUND STATISTICS | | 68 | 7 | 9 | 84 | 196 | 220 | 416 | 91 | 7 | 21 | 119 | 321 |
| DOWNBOUND STATISTICS | | 94 | 17 | 12 | 123 | 176 | 320 | 496 | 121 | 15 | 26 | 162 | 358 |
| TOTALS | | 162 | 24 | 21 | 207 | 372 | 540 | 912 | 212 | 22 | 47 | 281 | 680 |

TABLE 3

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/83 THROUGH 12/83
INSTITUTE FOR WATER RESOURCES

| EROC #4 | DISTRICT NAME PITTSBURGH | | | DIVISION NAME OHIO RIVER | | | MONTHS REPORTED | | | | | | | | | | | |
|--------------------------------|-----------------------------|----|---------------|-----------------------------|---|-----------------|-----------------|----|---------------|-------|---|---------------|-------|-----|-----------------|------|--------|-------------|
| | | | | | | | 10/83 | | | 11/83 | | | 12/83 | | | | | |
| ALL TIMES EXPRESSED IN MINUTES | | | | | | | | | | | | | | | | | | |
| APPROACH | | | LOCK ENTRY | | | PROCESSING TIME | | | CHAMBER | | | EXIT | | | : DELAYED DELAY | | DELAY | DELAY |
| MIN AVG MAX | | | : MIN AVG MAX | | | : MIN AVG MAX | | | : MIN AVG MAX | | | : MIN AVG MAX | | | : TONS TIME | | AVG | MAX |
| | | | | | | | | | | | | | | | (TONS) | | (TONS) | (ALL VSSLS) |
| ALLEGHENY RIVER | | | | | | | | | | | | | | | | | | |
| LOCK & DAM 2 | 1 | 5 | 70 | 1 | 4 | 28 | 6 | 7 | 20 | 1 | 6 | 45 | : | 77 | 2779 | 36.1 | 255 | |
| LOCK & DAM 3 | 1 | 7 | 71 | 1 | 4 | 40 | 5 | 7 | 18 | 1 | 6 | 30 | : | 82 | 3218 | 39.2 | 410 | |
| LOCK & DAM 4 | 1 | 6 | 25 | 1 | 4 | 64 | 6 | 8 | 28 | 1 | 6 | 37 | : | 39 | 980 | 25.1 | 105 | |
| LOCK & DAM 5 | 1 | 2 | 10 | 1 | 2 | 30 | 5 | 8 | 50 | 1 | 3 | 12 | : | 9 | 149 | 16.6 | 53 | |
| LOCK & DAM 6 | 3 | 4 | 30 | 3 | 4 | 5 | 6 | 8 | 18 | 3 | 5 | 11 | : | 9 | 135 | 15.0 | 23 | |
| LOCK & DAM 7 | 1 | 3 | 7 | 1 | 2 | 26 | 7 | 7 | 10 | 1 | 4 | 6 | : | 3 | 33 | 11.0 | 16 | |
| LOCK & DAM 8 | 1 | 4 | 7 | 2 | 2 | 13 | 8 | 8 | 8 | 2 | 2 | 5 | : | 0 | 0 | 0.0 | 21 | |
| LOCK & DAM 9 | 1 | 4 | 5 | 1 | 1 | 1 | 10 | 10 | 10 | 1 | 1 | 2 | : | 0 | 0 | 0.0 | 10 | |
| MONONGAHELA RIVER | | | | | | | | | | | | | | | | | | |
| LOCK & DAM 2 | 1 | 11 | 43 | 1 | 5 | 33 | 7 | 11 | 39 | 1 | 7 | 55 | : | 262 | 8835 | 33.7 | 255 | |
| LOCK & DAM 2 AUX 1 | 1 | 8 | 29 | 1 | 2 | 13 | 5 | 6 | 15 | 1 | 2 | 15 | : | 18 | 256 | 14.2 | 60 | |
| LOCK & DAM 3 | 1 | 10 | 57 | 1 | 5 | 23 | 6 | 10 | 32 | 3 | 6 | 39 | : | 818 | 29597 | 36.2 | 184 | |
| LOCK & DAM 3 AUXILIARY 1 | 1 | 8 | 26 | 1 | 2 | 12 | 5 | 8 | 26 | 1 | 3 | 15 | : | 24 | 304 | 12.7 | 25 | |
| LOCK & DAM 4 | 1 | 10 | 47 | 1 | 6 | 23 | 6 | 10 | 36 | 1 | 7 | 37 | : | 543 | 21041 | 38.7 | 294 | |
| LOCK & DAM 4 AUXILIARY 1 | 1 | 9 | 39 | 1 | 2 | 16 | 5 | 9 | 23 | 1 | 4 | 24 | : | 6 | 69 | 11.5 | 33 | |
| MAXWELL LOCK & DAM | 1 | 9 | 36 | 1 | 6 | 30 | 7 | 11 | 35 | 2 | 8 | 29 | : | 71 | 1039 | 14.6 | 47 | |

TABLE 3

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/83 THROUGH 12/83
INSTITUTE FOR WATER RESOURCES

| EROC H4 | DISTRICT NAME PITTSBURGH | DIVISION NAME OHIO RIVER | MONTHS REPORTED | | | | | | | | | | | | | | | | |
|--------------------------------|-----------------------------|-----------------------------|-----------------|-----|-----|-----------------|-----|-----|---------|-----|-----|-------|-----|-----|----------------|--------|------------|-------------|-----------|
| | | | 10/83 | | | | | | | | | | | | | | | | |
| | | | 11/83 | | | | | | | | | | | | | | | | |
| | | | 12/83 | | | | | | | | | | | | | | | | |
| ALL TIMES EXPRESSED IN MINUTES | | | | | | | | | | | | | | | | | | | |
| APPROACH | | | LOCK ENTRY | | | PROCESSING TIME | | | CHAMBER | | | EXIT | | | : DELAYED TONS | | DELAY TIME | DELAY AVG | DELAY MAX |
| MIN | AVG | MAX | : MIN | AVG | MAX | : MIN | AVG | MAX | : MIN | AVG | MAX | : MIN | AVG | MAX | : | (TONS) | (TONS) | (ALL VSSLS) | |
| MONONGAMELA RIVER | | | | | | | | | | | | | | | | | | | |
| MAXWELL LOCK & DAM AUX 1 | | | 1 | 11 | 38 | 2 | 7 | 18 | 9 | 12 | 44 | 2 | 9 | 23 | : | 50 | 736 | 14.7 | 57 |
| LOCK & DAM 7 | | | 1 | 6 | 53 | 1 | 4 | 29 | 5 | 6 | 27 | 1 | 9 | 62 | : | 478 | 23331 | 48.8 | 269 |
| LOCK & DAM 8 | | | 1 | 5 | 42 | 1 | 4 | 21 | 5 | 6 | 32 | 2 | 9 | 44 | : | 320 | 12536 | 39.2 | 159 |
| MORGANTOWN LOCK & DAM | | | 2 | 5 | 10 | 2 | 4 | 10 | 5 | 11 | 30 | 2 | 5 | 10 | : | 0 | 0 | 0.0 | 11 |
| HILDEBRAND LOCK & DAM | | | 2 | 4 | 20 | 1 | 3 | 12 | 7 | 11 | 29 | 1 | 4 | 13 | : | 0 | 0 | 0.0 | 45 |
| OPEKISKA LOCK & DAM | | | 2 | 5 | 17 | 2 | 3 | 6 | 10 | 10 | 18 | 2 | 3 | 6 | : | 0 | 0 | 0.0 | 0 |
| OHIO RIVER | | | | | | | | | | | | | | | | | | | |
| ENSNORTH LOCK & DAM | | | 1 | 12 | 58 | 2 | 7 | 66 | 6 | 15 | 46 | 2 | 8 | 70 | : | 576 | 41131 | 71.4 | 1169 |
| ENSNORTH LOCK & DAM AUX 1 | | | 1 | 10 | 40 | 1 | 4 | 15 | 6 | 9 | 20 | 2 | 4 | 24 | : | 14 | 776 | 55.4 | 178 |
| DASHIELDS LOCK & DAM | | | 1 | 15 | 70 | 1 | 8 | 56 | 6 | 11 | 40 | 1 | 10 | 96 | : | 442 | 30802 | 69.7 | 533 |
| DASHIELDS LOCK & DAM AUX 1 | | | 1 | 11 | 46 | 1 | 3 | 15 | 5 | 6 | 15 | 1 | 3 | 19 | : | 22 | 264 | 12.0 | 39 |
| MONTGOMERY LOCK & DAM | | | 1 | 10 | 75 | 1 | 9 | 51 | 7 | 14 | 58 | 1 | 13 | 82 | : | 479 | 46971 | 98.1 | 1210 |
| MONTGOMERY LOCK & DAM AUX 1 | | | 1 | 6 | 58 | 1 | 5 | 53 | 6 | 9 | 28 | 1 | 5 | 25 | : | 118 | 127047 | 1076.7 | 2447 |
| NEW CUMBERLAND LOCK & DAM | | | 1 | 20 | 59 | 1 | 6 | 33 | 5 | 15 | 49 | 2 | 13 | 53 | : | 161 | 6096 | 37.9 | 175 |
| NEW CUMBERLAND LK & DAM AUX | | | 1 | 14 | 50 | 1 | 2 | 10 | 7 | 12 | 25 | 1 | 9 | 51 | : | 24 | 586 | 24.4 | 75 |
| PIKE ISLAND LOCK & DAM | | | 1 | 16 | 59 | 1 | 9 | 30 | 5 | 14 | 58 | 2 | 10 | 32 | : | 189 | 7386 | 39.1 | 151 |
| PIKE ISLAND LOCK & DAM AUX 1 | | | 1 | 10 | 34 | 1 | 4 | 15 | 5 | 13 | 45 | 1 | 8 | 22 | : | 15 | 348 | 23.2 | 43 |

| EROC #4 | DISTRICT NAME PITTSBURGH | DIVISION NAME OHIO RIVER | MONTHS REPORTED | | |
|------------|-----------------------------|-----------------------------|-----------------|-------|-------|
| | | | 10/83 | 11/83 | 12/83 |
| | | | | | |

| | ALL TIMES EXPRESSED IN MINUTES | | | | | | | | | | | | | | | | |
|----------------------------|--------------------------------|-----|-----|----------------------|---------|-----|-------|------|------|-------|-----|-----|-----------|--------|--------|-------------|-----|
| | APPROACH | | | LOCK PROCESSING TIME | | | | | | EXIT | | | : DELAYED | | DELAY | DELAY | |
| | | | | ENTRY | CHAMBER | | | TONS | TIME | | | | AVG | MAX | | | |
| | KIN | AVG | MAX | : KIN | AVG | MAX | : KIN | AVG | MAX | : KIN | AVG | MAX | : | (TONS) | (TONS) | (ALL VSSLS) | |
| <hr/> | | | | | | | | | | | | | | | | | |
| ONTIO RIVER | | | | | | | | | | | | | | | | | |
| HANNIBAL LOCKS & DAM | 1 | 18 | 58 | 1 | 10 | 25 | 7 | 16 | 52 | 1 | 11 | 24 | : | 216 | 11889 | 55.0 | 607 |
| HANNIBAL LOCKS & DAM AUX 1 | 1 | 12 | 52 | 1 | 6 | 26 | 6 | 16 | 54 | 2 | 11 | 48 | : | 50 | 14243 | 285.3 | 790 |

TABLE 1

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/83 THROUGH 12/83
INSTITUTE FOR WATER RESOURCES

| EROC K3 | DISTRICT NAME JACKSONVILLE | DIVISION NAME SOUTH ATLANTIC | MONTHS REPORTED | | |
|---------------------|----------------------------------|---------------------------------|-----------------|-------|-------|
| | | | 10/83 | 11/83 | 12/83 |
| RIVER | LCODE-LOCK NAME | LEN/MID/DRAFT (FT/FT/FT) | | | |
| CROSS FLA BRG CNL | 11-HENRY HOLLAND BUCKMAN LOCK | 0600/0084/15.0 | | | |
| | 12-EUREKA LOCK | 0600/0084/15.0 | | | |
| | 13-INGLIS LOCK | 0600/0084/15.0 | | | |
| CANAUVERAL HARBOR | 21-CANAUVERAL LOCK | 0600/0090/15.0 | | | |
| OKEECHOBEE WATERWAY | 01-ST LUCIE LOCK & DAM | 0275/0050/14.0 | | | |
| | 02-MOORE HAVEN LOCK | 0275/0050/11.0 | | | |
| | 03-ORTONA LOCK & DAM | 0275/0050/12.0 | | | |
| | 04-W P FRANKLIN LCK & CTRL STRCT | 0450/0056/14.0 | | | |
| | 05-PORT MAYACA LOCK | 0450/0056/14.0 | | | |
| OKLAHAMA RIVER | 31-NOSS BLUFF LOCK & DAM | 0156/0030/XXXX | | | |

NO DATA RECORDED ON SURRY FILE FOR THIS PERIOD

NO DATA RECORDED ON LCKAGE FILE FOR THIS PERIOD

TABLE 1

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/83 THROUGH 12/83
INSTITUTE FOR WATER RESOURCES

| EROC KS | DISTRICT NAME MOBILE | DIVISION NAME SOUTH ATLANTIC | MONTHS REPORTED | | |
|-------------------------|---------------------------------|---------------------------------|--------------------------|-------|-------|
| | | | 10/83 | 11/83 | 12/83 |
| RIVER | LCODE-LOCK NAME | | LEN/MID/DRAFT (FT/FT/FT) | | |
| ALABAMA-COOSA RIVERS | 11-CLAIBORNE LOCK & DAM | | 0600/0084/12.0 | | |
| | 12-MILLERS FERRY LOCK & DAM | | 0600/0084/12.0 | | |
| | 13-JONES BLUFF LOCK & DAM | | 0600/0084/12.0 | | |
| APLCH/CHTCH/FLNT RI | 21-JIM WOODRUFF LOCK & DAM | | 0450/0082/12.0 | | |
| | 22-GEORGE W ANDREWS LOCK & DAM | | 0450/0082/12.0 | | |
| | 23-WALTER F GEORGE LOCK & DAM | | 0450/0082/12.0 | | |
| BLKMAR/TOMBIGBEE RI | 01-COFFEEVILLE LOCK | | 0600/0110/12.0 | | |
| | 02-DEMOPOLIS LOCK & DAM | | 0600/0110/12.0 | | |
| | 03-WARRIOR LOCK & DAM | | 0600/0110/12.0 | | |
| | 04-WILLIAM BACON OLIVER LK & DM | | 0600/0095/12.0 | | |
| | 05-HOLT LOCK & DAM | | 0600/0110/12.0 | | |
| | 06-JOHN HOLLIS BANKHEAD LK & DM | | 0600/0110/12.0 | | |
| PEARL RIVER | 31-LOCK 1 | | 0310/0065/ 9.0 | | |
| | 32-LOCK 2 | | 0310/0065/ 9.0 | | |
| | 33-LOCK 3 | | 0310/0065/ 9.0 | | |
| TENN TOMBIGBEE WATERWAY | 41-GAINESVILLE LOCK & DAM | | 0600/0110/12.0 | | |
| | 42-ALICEVILLE LOCK & DAM | | 0600/0110/12.0 | | |
| | 43-COLUMBUS LOCK & DAM | | 0600/0110/12.0 | | |
| | 44-ABERDEEN LOCK & DAM | | 0600/0110/12.0 | | |

TABLE 2

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/83 THROUGH 12/83
INSTITUTE FOR WATER RESOURCES

| EROC K5 | DISTRICT NAME MOBILE | DIVISION NAME SOUTH ATLANTIC | MONTHS REPORTED | | | | | | | | | | TONNAGE (KTONS) |
|-----------------------------|-------------------------|---------------------------------|-----------------|----------------|----------------|----------------|---------------|-----------------|------------------|------------------|-----------------|-----------------|--------------------|
| | | | 10/83 | | 11/83 | | 12/83 | | | | | | |
| RIVER/LOCK NAME | | TONS | VESSL RECRTH | VESSL OTHER | VESSL TOTAL | BARGS EMPTY | BARGS FULL | BARGES TOTAL | LOCKCS COMMER | LCKGES RECRTH | LCKGES OTHER | LCKGES TOTAL | |
| (NAV, OPN, ETC) | | | | | | | | | | | | | |
| ALABAMA-COOSA RIVERS | | | | | | | | | | | | | |
| CLAZBORNE LOCK & DAM | | xxx | | | | | | | | | | | |
| UPBOUND STATISTICS | | 89 | 47 | 3 | 139 | 306 | 13 | 319 | 87 | 47 | 8 | 142 | 15 |
| DOWNBOUND STATISTICS | | 90 | 50 | 1 | 141 | 13 | 304 | 317 | 86 | 50 | 9 | 145 | 364 |
| TOTALS | | 179 | 97 | 4 | 280 | 319 | 317 | 636 | 173 | 97 | 17 | 287 | 379 |
| MILLERS FERRY LOCK & DAM | | xxx | | | | | | | | | | | |
| UPBOUND STATISTICS | | 48 | 5 | 1 | 54 | 143 | 16 | 159 | 50 | 5 | 0 | 55 | 18 |
| DOWNBOUND STATISTICS | | 48 | 5 | 1 | 54 | 17 | 145 | 162 | 48 | 4 | 2 | 54 | 162 |
| TOTALS | | 96 | 10 | 2 | 108 | 160 | 161 | 321 | 98 | 9 | 2 | 109 | 180 |
| JONES BLUFF LOCK & DAM | | xxx | | | | | | | | | | | |
| UPBOUND STATISTICS | | 8 | 23 | 0 | 31 | 5 | 11 | 16 | 10 | 9 | 2 | 21 | 14 |
| DOWNBOUND STATISTICS | | 7 | 23 | 1 | 31 | 9 | 4 | 13 | 9 | 8 | 6 | 23 | 4 |
| TOTALS | | 15 | 46 | 1 | 62 | 14 | 15 | 29 | 19 | 17 | 8 | 44 | 18 |
| APLCH/CHTCH/FLNT RI | | | | | | | | | | | | | |
| JIM WOODRUFF LOCK & DAM | | xxx | | | | | | | | | | | |
| UPBOUND STATISTICS | | 85 | 20 | 8 | 113 | 169 | 52 | 221 | 99 | 12 | 9 | 120 | 108 |
| DOWNBOUND STATISTICS | | 85 | 20 | 10 | 115 | 55 | 168 | 223 | 103 | 16 | 12 | 131 | 97 |
| TOTALS | | 170 | 40 | 18 | 228 | 224 | 220 | 444 | 202 | 28 | 21 | 251 | 206 |
| GEORGE H ANDREWS LOCK & DAM | | xxx | | | | | | | | | | | |
| UPBOUND STATISTICS | | 29 | 35 | 5 | 69 | 26 | 26 | 52 | 32 | 31 | 4 | 67 | 41 |
| DOWNBOUND STATISTICS | | 31 | 31 | 4 | 66 | 26 | 23 | 49 | 35 | 30 | 3 | 68 | 20 |
| TOTALS | | 60 | 66 | 9 | 135 | 52 | 49 | 101 | 67 | 61 | 7 | 135 | 62 |
| WALTER F GEORGE LOCK & DAM | | xxx | | | | | | | | | | | |
| UPBOUND STATISTICS | | 13 | 20 | 1 | 34 | 16 | 11 | 27 | 15 | 16 | 6 | 37 | 19 |
| DOWNBOUND STATISTICS | | 13 | 17 | 4 | 34 | 13 | 13 | 26 | 17 | 15 | 6 | 38 | 8 |
| TOTALS | | 26 | 37 | 5 | 68 | 29 | 24 | 53 | 32 | 31 | 12 | 75 | 27 |

TABLE 2

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/83 THROUGH 12/83
INSTITUTE FOR WATER RESOURCES

| EROC K5 | DISTRICT NAME MOBILE | DIVISION NAME SOUTH ATLANTIC | MONTHS REPORTED | | | | | | | | | | |
|------------------------------|-------------------------|---------------------------------|-----------------|----------------|----------------|----------------|---------------|----------------|------------------|------------------|-----------------|-----------------|--------------------|
| | | | 10/83 | | | 11/83 | | | 12/83 | | | | |
| RIVER/LOCK NAME | | TONS | VESSL RECRTH | VESSL OTHER | VESSL TOTAL | BARGS EMPTY | BARGS FULL | BARGS TOTAL | LOCKGS CONNER | LCKGES RECRTH | LCKGES OTHER | LCKGES TOTAL | TONNAGE (KTONS) |
| (NAV, OPN, ETC) | | | | | | | | | | | | | |
| BLKMAR/TOMBIGBEE RI | | | | | | | | | | | | | |
| COFFEEVILLE LOCK | | XXX | | | | | | | | | | | |
| UPBOUND STATISTICS | | 446 | 12 | 11 | 469 | 1753 | 166 | 1919 | 448 | 1 | 18 | 467 | 277 |
| DOWNBOUND STATISTICS | | 432 | 11 | 16 | 459 | 96 | 1781 | 1877 | 436 | 6 | 24 | 466 | 2718 |
| TOTALS | | 878 | 23 | 27 | 928 | 1849 | 1947 | 3796 | 884 | 7 | 42 | 933 | 2995 |
| DEMOPOLIS LOCK & DAM | | XXX | | | | | | | | | | | |
| UPBOUND STATISTICS | | 430 | 5 | 12 | 447 | 1721 | 155 | 1876 | 432 | 3 | 11 | 446 | 254 |
| DOWNBOUND STATISTICS | | 424 | 7 | 11 | 442 | 98 | 1766 | 1864 | 430 | 2 | 10 | 442 | 2651 |
| TOTALS | | 854 | 12 | 23 | 889 | 1819 | 1921 | 3740 | 862 | 5 | 21 | 888 | 2906 |
| WARRIOR LOCK & DAM | | XXX | | | | | | | | | | | |
| UPBOUND STATISTICS | | 428 | 6 | 8 | 442 | 1730 | 136 | 1866 | 436 | 1 | 5 | 442 | 246 |
| DOWNBOUND STATISTICS | | 427 | 4 | 5 | 436 | 85 | 1756 | 1841 | 429 | 2 | 3 | 434 | 2898 |
| TOTALS | | 855 | 10 | 13 | 878 | 1815 | 1892 | 3707 | 865 | 3 | 8 | 876 | 3144 |
| WILLIAM BACON OLIVER LK & DM | | XXX | | | | | | | | | | | |
| UPBOUND STATISTICS | | 410 | 9 | 34 | 473 | 1705 | 101 | 1806 | 593 | 5 | 22 | 620 | 144 |
| DOWNBOUND STATISTICS | | 413 | 15 | 43 | 471 | 47 | 1732 | 1779 | 622 | 8 | 10 | 640 | 2646 |
| TOTALS | | 823 | 24 | 97 | 944 | 1752 | 1833 | 3585 | 1215 | 13 | 32 | 1260 | 2791 |
| MOLT LOCK & DAM | | XXX | | | | | | | | | | | |
| UPBOUND STATISTICS | | 383 | 6 | 28 | 417 | 1675 | 100 | 1775 | 394 | 5 | 6 | 405 | 140 |
| DOWNBOUND STATISTICS | | 374 | 7 | 23 | 404 | 40 | 1706 | 1746 | 387 | 5 | 3 | 395 | 2584 |
| TOTALS | | 757 | 13 | 51 | 821 | 1715 | 1806 | 3521 | 781 | 10 | 9 | 800 | 2724 |
| JOHN HOLLIS BANKHEAD LK & DM | | XXX | | | | | | | | | | | |
| UPBOUND STATISTICS | | 286 | 11 | 7 | 304 | 1169 | 96 | 1265 | 292 | 8 | 3 | 303 | 135 |
| DOWNBOUND STATISTICS | | 286 | 12 | 8 | 306 | 72 | 1193 | 1265 | 294 | 8 | 2 | 304 | 1830 |
| TOTALS | | 572 | 23 | 15 | 610 | 1241 | 1289 | 2530 | 586 | 16 | 5 | 607 | 1965 |

TABLE 3

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/83 THROUGH 12/83
INSTITUTE FOR WATER RESOURCES

| EROC KS | DISTRICT NAME MOBILE | | | DIVISION NAME SOUTH ATLANTIC | | | | | | MONTHS REPORTED | | | | | | | | | | | |
|------------------------------|-------------------------|--|--------------------------------|---------------------------------|-----|----------------------------|---|-----|---------------|--------------------------------|----|-----------|----|--------|-----|--------|------|-------------|--|--|--|
| | | | | | | | | | | 10/83 | | | | 11/83 | | | | 12/83 | | | |
| | | | | | | | | | | ALL TIMES EXPRESSED IN MINUTES | | | | | | | | | | | |
| APPROACH | | | LOCK ENTRY | | | PROCESSING TIME CHAMBER | | | EXIT | | | : DELAYED | | DELAY | | DELAY | | DELAY | | | |
| MIN AVG MAX : | | | MIN AVG MAX : | | | MIN AVG MAX : | | | MIN AVG MAX : | | | : TONS | | TIME | | AVG | | MAX | | | |
| | | | | | | | | | | | | : | | (TONS) | | (TONS) | | (ALL VSSLS) | | | |
| b | | | | | | | | | | | | | | | | | | | | | |
| ALABAMA-COOSA RIVERS | | | | | | | | | | | | | | | | | | | | | |
| CLAIBORNE LOCK & DAM | | | 1 | 5 | 50 | 1 | 4 | 20 | 1 | 10 | 60 | 2 | 5 | 29 : | 0 | 0 | 0.0 | 75840 | | | |
| MILLERS FERRY LOCK & DAM | | | 3 | 10 | 23 | 2 | 5 | 14 | 10 | 15 | 23 | 2 | 5 | 15 : | 0 | 0 | 0.0 | 0 | | | |
| JONES BLUFF LOCK & DAM | | | 1 | 4 | 10 | 1 | 3 | 12 | 7 | 14 | 25 | 1 | 4 | 10 : | 0 | 0 | 0.0 | 0 | | | |
| APLCH/CHTCH/FLNT RI | | | | | | | | | | | | | | | | | | | | | |
| JIM WOODRUFF LOCK & DAM | | | 2 | 5 | 35 | 2 | 5 | 40 | 8 | 11 | 17 | 2 | 5 | 36 : | 2 | 35 | 17.5 | 25 | | | |
| GEORGE W ANDREWS LOCK & DAM | | | 2 | 2 | 6 | 2 | 2 | 12 | 6 | 14 | 31 | 1 | 2 | 9 : | 0 | 0 | 0.0 | 0 | | | |
| WALTER F GEORGE LOCK & DAM | | | 1 | 3 | 17 | 1 | 4 | 40 | 5 | 15 | 23 | 1 | 3 | 10 : | 0 | 0 | 0.0 | 17 | | | |
| BLKWAR/TOMBIGBEE RI | | | | | | | | | | | | | | | | | | | | | |
| COFFEEVILLE LOCK | | | 1 | 9 | 36 | 1 | 4 | 27 | 5 | 13 | 25 | 1 | 9 | 40 : | 310 | 11119 | 35.9 | 153 | | | |
| DEMOPOLIS LOCK & DAM | | | 1 | 12 | 32 | 1 | 4 | 16 | 1 | 13 | 50 | 3 | 11 | 34 : | 282 | 8796 | 31.2 | 129 | | | |
| WARRIOR LOCK & DAM | | | 1 | 12 | 41 | 1 | 4 | 18 | 5 | 17 | 29 | 1 | 9 | 403 : | 289 | 10956 | 37.9 | 160 | | | |
| WILLIAM BACON OLIVER LK & DM | | | 1 | 12 | 58 | 1 | 6 | 24 | 1 | 14 | 55 | 1 | 13 | 91 : | 509 | 45970 | 90.3 | 1062 | | | |
| HOLT LOCK & DAM | | | 1 | 10 | 39 | 1 | 6 | 37 | 5 | 19 | 57 | 1 | 8 | 28 : | 238 | 11053 | 46.4 | 472 | | | |
| JOHN HOLLIS BANKHEAD LK & DM | | | 1 | 13 | 540 | 1 | 8 | 212 | 5 | 13 | 43 | 1 | 8 | 22 : | 128 | 5259 | 41.1 | 170 | | | |
| PEARL RIVER | | | | | | | | | | | | | | | | | | | | | |
| LOCK 1 | | | NO DATA RECORDED FOR THIS LOCK | | | | | | | | | | | | | | | | | | |
| LOCK 2 | | | NO DATA RECORDED FOR THIS LOCK | | | | | | | | | | | | | | | | | | |
| LOCK 3 | | | NO DATA RECORDED FOR THIS LOCK | | | | | | | | | | | | | | | | | | |

TABLE 1

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/83 THROUGH 12/83
INSTITUTE FOR WATER RESOURCES

| EROC | DISTRICT NAME | DIVISION NAME | MONTHS REPORTED | | |
|------|---------------|----------------|-----------------|-------|-------|
| K6 | SAVANNAH | SOUTH ATLANTIC | 10/83 | 11/83 | 12/83 |

| | | |
|----------------|----------------------------------|--------------------------|
| RIVER | LCODE-LOCK NAME | LEN/WID/DRAFT (FT/FT/FT) |
| SAVANNAH RIVER | 01-NEW SAVANNAH BLUFF LOCK & DAM | 0360/0056/12.0 |

NO DATA RECORDED ON SUMMARY FILE FOR THIS PERIOD

NO DATA RECORDED ON LOCKAGE FILE FOR THIS PERIOD

TABLE 1

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/83 THROUGH 12/83
INSTITUTE FOR WATER RESOURCES

| EROC | DISTRICT NAME | DIVISION NAME | MONTHS REPORTED | | |
|------|---------------|----------------|-----------------|-------|-------|
| K7 | WILMINGTON | SOUTH ATLANTIC | 10/83 | 11/83 | 12/83 |

| RIVER | LCODE-LOCK NAME | LEN/MID/DRAFT (FT/FT/FT) |
|-----------------|-------------------------------|--------------------------|
| CAPE FEAR RIVER | 01-LOCK & DAM 1 | 0200/0040/10.0 |
| | 02-LOCK & DAM 2 | 0200/0040/10.0 |
| | 03-WILLIAM O MUSKE LOCK & DAM | 0300/0040/10.0 |

TABLE 2

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/83 THROUGH 12/83
INSTITUTE FOR WATER RESOURCES

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| EROC K7 | DISTRICT NAME WILMINGTON | DIVISION NAME SOUTH ATLANTIC | MONTHS REPORTED | | | | | | | | | |
|----------------------------|-----------------------------|---------------------------------|-----------------|----------------|---------------|-----------------|------------------|------------------|-----------------|-----------------|--------------------|----|
| | | | 10/83 | | 11/83 | | 12/83 | | | | | |
| RIVER/LOCK NAME | | | | | | | | | | | | |
| TONS | VESSL RECRTN | VESSL OTHER | VESSL TOTAL | BARGS EMPTY | BARGS FULL | BARGES TOTAL | LOCKGS CONMER | LCKGES RECRTN | LCKGES OTHER | LCKGES TOTAL | TONNAGE (KTONS) | |
| (NAV, OPN, ETC) | | | | | | | | | | | | |
| CAPE FEAR RIVER | | | | | | | | | | | | |
| LOCK & DAM 1 | | | | | | | | | | | | |
| xxx | | | | | | | | | | | | |
| UPBOUND STATISTICS | 16 | 4 | 0 | 20 | 0 | 16 | 16 | 29 | 1 | 7 | 37 | 16 |
| DOWNBOUND STATISTICS | 16 | 4 | 0 | 20 | 16 | 0 | 16 | 29 | 1 | 7 | 37 | 0 |
| TOTALS | 32 | 8 | 0 | 40 | 16 | 16 | 32 | 58 | 2 | 14 | 74 | 16 |
| LOCK & DAM 2 | | | | | | | | | | | | |
| xxx | | | | | | | | | | | | |
| UPBOUND STATISTICS | 15 | 4 | 0 | 19 | 0 | 15 | 15 | 28 | 1 | 5 | 34 | 14 |
| DOWNBOUND STATISTICS | 16 | 16 | 0 | 32 | 16 | 0 | 16 | 29 | 3 | 5 | 37 | 0 |
| TOTALS | 31 | 20 | 0 | 51 | 16 | 15 | 31 | 57 | 4 | 10 | 71 | 14 |
| WILLIAM O HUSKE LOCK & DAM | | | | | | | | | | | | |
| xxx | | | | | | | | | | | | |
| UPBOUND STATISTICS | 16 | 0 | 0 | 16 | 0 | 16 | 16 | 17 | 0 | 0 | 17 | 15 |
| DOWNBOUND STATISTICS | 16 | 14 | 0 | 30 | 16 | 0 | 16 | 17 | 0 | 1 | 18 | 0 |
| TOTALS | 32 | 14 | 0 | 46 | 16 | 16 | 32 | 34 | 0 | 1 | 35 | 15 |

TABLE 3

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/83 THROUGH 12/83
INSTITUTE FOR WATER RESOURCES

| ERDC K7 | DISTRICT NAME WILMINGTON | DIVISION NAME SOUTH ATLANTIC | MONTHS REPORTED | | | | | | | | | | | | | | | | | |
|----------------------------|-----------------------------|---------------------------------|--------------------------------|-----|-----|------------|-----|-----|-------------------------|-----|-----|--------|------|-----|-----------|-------------|-------|-------|--|--|
| | | | 10/83 | | | | | | 11/83 | | | | | | 12/83 | | | | | |
| | | | ALL TIMES EXPRESSED IN MINUTES | | | | | | | | | | | | | | | | | |
| | | | APPROACH | | | LOCK ENTRY | | | PROCESSING TIME CHAMBER | | | EXIT | | | : DELAYED | | DELAY | DELAY | | |
| MIN | AVG | MAX | : MIN | AVG | MAX | : MIN | AVG | MAX | : MIN | AVG | MAX | : TOMS | TIME | AVG | MAX | (ALL VSSLS) | | | | |
| | | | | | | | | | | | | | | | | | | | | |
| CAPE FEAR RIVER | | | | | | | | | | | | | | | | | | | | |
| LOCK & DAM 1 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 14 | 15 | 5 | 5 | 15 : | 1 | 5 | 5.0 | 5 | | | | |
| LOCK & DAM 2 | 5 | 5 | 10 | 5 | 5 | 10 | 5 | 9 | 15 | 5 | 12 | 437 : | 30 | 149 | 5.0 | 5 | | | | |
| WILLIAM O HUSKE LOCK & DAM | 4 | 4 | 5 | 5 | 5 | 5 | 30 | 30 | 30 | 5 | 5 | 5 : | 0 | 0 | 0.0 | 0 | | | | |

TABLE 1

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/83 THROUGH 12/83
INSTITUTE FOR WATER RESOURCES

| | | | | | |
|--------------------|-----------------------------|--------------------------------|--------------------------|-------|-------|
| EROC L2 | DISTRICT NAME SACRAMENTO | DIVISION NAME SOUTH PACIFIC | MONTHS REPORTED | | |
| | | | 10/83 | 11/83 | 12/83 |
| <hr/> | | | | | |
| RIVER | LCODE-LOCK NAME | | LEN/WID/DRAFT (FT/FT/FT) | | |
| SCRWNTD DMSHP CHNL | 01-BARGE CANAL LOCK | | 0640/0086/23.0 | | |

NO DATA RECORDED ON SUMRY FILE FOR THIS PERIOD

NO DATA RECORDED ON LCKAGE FILE FOR THIS PERIOD

TABLE 1

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/83 THROUGH 12/83
INSTITUTE FOR WATER RESOURCES

| | | | |
|------------|----------------------------|-------------------------------|--------------------------------------|
| EROC M3 | DISTRICT NAME GALVESTON | DIVISION NAME SOUTHWESTERN | MONTHS REPORTED 10/83 11/83 12/83 |
|------------|----------------------------|-------------------------------|--------------------------------------|

| | | |
|-------------------|-----------------------------|--------------------------|
| RIVER | LCODE-LOCK NAME | LEN/MID/DRAFT (FT/FT/FT) |
| GULF INTRACOASTAL | 11-COLORADO RIVER EAST LOCK | 1200/0075/15.0 |
| | 12-COLORADO RIVER WEST LOCK | 1200/0075/15.0 |
| | 13-BRAZOS EAST GATE | 9999/0075/15.0 |
| | 14-BRAZOS WEST GATE | 9999/0075/15.0 |

NO DATA RECORDED ON SUMMARY FILE FOR THIS PERIOD

NO DATA RECORDED ON LOCKAGE FILE FOR THIS PERIOD

TABLE 1

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/83 THROUGH 12/83
INSTITUTE FOR WATER RESOURCES

| | | | | | |
|------|---------------|---------------|-----------------|-------|-------|
| EROC | DISTRICT NAME | DIVISION NAME | MONTHS REPORTED | | |
| M4 | LITTLE ROCK | SOUTHWESTERN | 10/83 | 11/83 | 12/83 |

| | | |
|----------------|-------------------------------|--------------------------|
| RIVER | LCODE-LOCK NAME | LEN/WID/DRAFT (FT/FT/FT) |
| ARKANSAS RIVER | 01-NORRELL LOCK & DAM | 0600/0110/12.0 |
| | 02-LOCK & DAM 2 | 0600/0110/12.0 |
| | 03-LOCK & DAM 3 | 0600/0110/12.0 |
| | 04-LOCK & DAM 4 | 0600/0110/12.0 |
| | 05-LOCK & DAM 5 | 0600/0110/12.0 |
| | 06-DAVID D TERRY LOCK & DAM | 0600/0110/12.0 |
| | 07-MURRAY LOCK & DAM | 0600/0110/12.0 |
| | 08-TOAD SUCK FERRY LOCK & DAM | 0600/0110/12.0 |
| | 09-LOCK & DAM 9 | 0600/0110/12.0 |
| | 10-DARDANELLE LOCK & DAM | 0600/0110/12.0 |
| | 11-OZARK LOCK & DAM | 0600/0110/12.0 |
| | 13-LOCK & DAM 13 | 0600/0110/12.0 |

TABLE 2

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/83 THROUGH 12/83
INSTITUTE FOR WATER RESOURCES

| EROC M4 | DISTRICT NAME LITTLE ROCK | DIVISION NAME SOUTHWESTERN | MONTHS REPORTED | | | | | | | | | |
|--------------------------|------------------------------|-------------------------------|-----------------|-------|-------|-------|--------|--------|--------|--------|--------------------------|--------------------|
| | | | 10/83 | | | 11/83 | | | 12/83 | | | |
| RIVER/LOCK NAME | TOMS | VESSL | VESSL | VESSL | BARGS | BARGS | BARGES | LOCKGS | LCKGES | LCKGES | LCKGES | TONNAGE (KTONS) |
| | | RECRTN | OTHER | TOTAL | EMPTY | FULL | TOTAL | COMMER | RECRTN | OTHER | TOTAL (NAV, OPN, ETC) | |
| ARKANSAS RIVER | | | | | | | | | | | | |
| MORRELL LOCK & DAM | XXX | | | | | | | | | | | |
| UPBOUND STATISTICS | 162 | 14 | 60 | 236 | 397 | 371 | 768 | 181 | 11 | 45 | 237 | 491 |
| DOWNBOUND STATISTICS | 171 | 10 | 55 | 236 | 130 | 660 | 790 | 172 | 8 | 44 | 224 | 843 |
| TOTALS | 333 | 24 | 115 | 472 | 527 | 1031 | 1558 | 353 | 19 | 89 | 461 | 1335 |
| LOCK & DAM 2 | XXX | | | | | | | | | | | |
| UPBOUND STATISTICS | 161 | 14 | 45 | 220 | 402 | 371 | 773 | 200 | 12 | 13 | 225 | 495 |
| DOWNBOUND STATISTICS | 167 | 13 | 38 | 218 | 119 | 659 | 778 | 198 | 11 | 10 | 219 | 830 |
| TOTALS | 328 | 27 | 83 | 438 | 521 | 1030 | 1551 | 398 | 23 | 23 | 444 | 1325 |
| LOCK & DAM 3 | XXX | | | | | | | | | | | |
| UPBOUND STATISTICS | 135 | 26 | 8 | 169 | 406 | 394 | 800 | 155 | 22 | 11 | 188 | 558 |
| DOWNBOUND STATISTICS | 132 | 27 | 9 | 168 | 109 | 660 | 769 | 149 | 21 | 12 | 182 | 800 |
| TOTALS | 267 | 53 | 17 | 337 | 515 | 1054 | 1569 | 304 | 43 | 23 | 370 | 1358 |
| LOCK & DAM 4 | XXX | | | | | | | | | | | |
| UPBOUND STATISTICS | 130 | 10 | 13 | 153 | 399 | 379 | 778 | 152 | 10 | 16 | 178 | 488 |
| DOWNBOUND STATISTICS | 132 | 10 | 10 | 152 | 117 | 659 | 776 | 147 | 9 | 16 | 172 | 815 |
| TOTALS | 262 | 20 | 23 | 305 | 516 | 1038 | 1554 | 299 | 19 | 32 | 350 | 1304 |
| LOCK & DAM 5 | XXX | | | | | | | | | | | |
| UPBOUND STATISTICS | 120 | 85 | 11 | 216 | 324 | 331 | 655 | 137 | 77 | 13 | 227 | 416 |
| DOWNBOUND STATISTICS | 119 | 86 | 7 | 212 | 98 | 552 | 650 | 129 | 71 | 11 | 211 | 756 |
| TOTALS | 239 | 171 | 18 | 428 | 422 | 883 | 1305 | 266 | 148 | 24 | 438 | 1172 |
| DAVID D TERRY LOCK & DAM | XXX | | | | | | | | | | | |
| UPBOUND STATISTICS | 121 | 169 | 18 | 308 | 329 | 318 | 647 | 136 | 150 | 9 | 295 | 411 |
| DOWNBOUND STATISTICS | 124 | 172 | 8 | 304 | 105 | 554 | 659 | 133 | 146 | 8 | 287 | 744 |
| TOTALS | 245 | 341 | 26 | 612 | 434 | 872 | 1306 | 269 | 296 | 17 | 582 | 1156 |
| MURRAY LOCK & DAM | XXX | | | | | | | | | | | |
| UPBOUND STATISTICS | 92 | 112 | 43 | 247 | 279 | 271 | 550 | 139 | 91 | 13 | 243 | 348 |
| DOWNBOUND STATISTICS | 91 | 113 | 39 | 243 | 72 | 483 | 555 | 134 | 88 | 15 | 237 | 656 |
| TOTALS | 183 | 225 | 82 | 490 | 351 | 754 | 1105 | 273 | 179 | 28 | 480 | 1004 |

TABLE 2

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/83 THROUGH 12/83
INSTITUTE FOR WATER RESOURCES

| EROC #4 | DISTRICT NAME LITTLE ROCK | DIVISION NAME SOUTHWESTERN | MONTHS REPORTED | | | | | | | | | |
|----------------------------|------------------------------|-------------------------------|-----------------|----------------|----------------|---------------|----------------|------------------|------------------|-----------------|-----------------|---------------------------------------|
| | | | 10/83 | | | 11/83 | | | 12/83 | | | |
| RIVER/LOCK NAME | TONS | VESSL RECRTN | VESSL OTHER | VESSL TOTAL | BARGS EMPTY | BARGS FULL | BARGS TOTAL | LOCKGS CONNER | LCKGES RECRTN | LCKGES OTHER | LCKGES TOTAL | TONNAGE (KTONS) (NAV, OPN, ETC) |
| ARKANSAS RIVER | | | | | | | | | | | | |
| TOAD SUCK FERRY LOCK & DAM | XXX | | | | | | | | | | | |
| UPBOUND STATISTICS | 95 | 30 | 4 | 129 | 281 | 277 | 558 | 106 | 27 | 14 | 147 | 355 |
| DOWNBOUND STATISTICS | 89 | 29 | 2 | 120 | 73 | 469 | 542 | 94 | 21 | 11 | 126 | 640 |
| TOTALS | 184 | 59 | 6 | 249 | 354 | 746 | 1100 | 200 | 48 | 25 | 273 | 995 |
| LOCK & DAM 9 | XXX | | | | | | | | | | | |
| UPBOUND STATISTICS | 89 | 37 | 6 | 132 | 274 | 269 | 543 | 98 | 30 | 10 | 138 | 349 |
| DOWNBOUND STATISTICS | 88 | 38 | 2 | 128 | 72 | 466 | 538 | 93 | 29 | 9 | 131 | 639 |
| TOTALS | 177 | 75 | 8 | 260 | 346 | 735 | 1081 | 191 | 59 | 19 | 269 | 988 |
| DARDANELLE LOCK & DAM | XXX | | | | | | | | | | | |
| UPBOUND STATISTICS | 95 | 36 | 5 | 136 | 279 | 261 | 540 | 106 | 29 | 17 | 152 | 349 |
| DOWNBOUND STATISTICS | 93 | 35 | 5 | 133 | 68 | 461 | 529 | 101 | 26 | 14 | 141 | 634 |
| TOTALS | 188 | 71 | 10 | 269 | 347 | 722 | 1069 | 207 | 55 | 31 | 293 | 984 |
| OZARK LOCK & DAM | XXX | | | | | | | | | | | |
| UPBOUND STATISTICS | 89 | 28 | 5 | 122 | 281 | 251 | 532 | 99 | 26 | 7 | 132 | 339 |
| DOWNBOUND STATISTICS | 87 | 33 | 1 | 121 | 64 | 456 | 520 | 91 | 29 | 6 | 126 | 649 |
| TOTALS | 176 | 61 | 6 | 243 | 345 | 707 | 1052 | 190 | 55 | 13 | 258 | 988 |
| LOCK & DAM 13 | XXX | | | | | | | | | | | |
| UPBOUND STATISTICS | 90 | 38 | 4 | 132 | 279 | 249 | 528 | 99 | 33 | 6 | 138 | 321 |
| DOWNBOUND STATISTICS | 87 | 43 | 2 | 132 | 67 | 447 | 514 | 91 | 34 | 6 | 131 | 610 |
| TOTALS | 177 | 81 | 6 | 264 | 346 | 696 | 1042 | 190 | 67 | 12 | 269 | 931 |

TABLE 3

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/83 THROUGH 12/83
INSTITUTE FOR WATER RESOURCES

| EROC #4 | DISTRICT NAME LITTLE ROCK | | | DIVISION NAME SOUTHWESTERN | | | | | | | | | MONTHS REPORTED | | | | | | | | |
|----------------------------|------------------------------|-----|----------------------|-------------------------------|-----|-------|-----|-----|-------|-----|-----|-----------------|-----------------|--------------|--------------|--------|-------------|-------|-------|--|--|
| | | | | | | | | | | | | | 10/83 | | | 11/83 | | | 12/83 | | |
| | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | |
| APPROACH | | | LOCK PROCESSING TIME | | | | | | EXIT | | | : DELAYED DELAY | | DELAY AVG | DELAY MAX | | | | | | |
| MIN | AVG | MAX | : MIN | AVG | MAX | : MIN | AVG | MAX | : MIN | AVG | MAX | : TONS | TIME | | | | | | | | |
| | | | | | | | | | | | | | | | (TONS) | (TONS) | (ALL VSSLS) | | | | |
| ARKANSAS RIVER | | | | | | | | | | | | | | | | | | | | | |
| NORRELL LOCK & DAM | | | 1 | 8 | 40 | 1 | 7 | 70 | 1 | 11 | 55 | 1 | 7 | 65 : | 46 | 1281 | 27.8 | 102 | | | |
| LOCK & DAM 2 | | | 1 | 10 | 40 | 1 | 9 | 45 | 5 | 13 | 50 | 1 | 9 | 95 : | 60 | 89725 | 1495.4 | 87840 | | | |
| LOCK & DAM 3 | | | 1 | 11 | 110 | 1 | 9 | 42 | 6 | 13 | 31 | 1 | 10 | 50 : | 33 | 1327 | 40.2 | 140 | | | |
| LOCK & DAM 4 | | | 1 | 12 | 55 | 1 | 9 | 55 | 5 | 11 | 48 | 2 | 11 | 82 : | 23 | 684 | 29.7 | 75 | | | |
| LOCK & DAM 5 | | | 1 | 10 | 32 | 1 | 8 | 49 | 4 | 11 | 32 | 1 | 11 | 45 : | 52 | 1013 | 19.5 | 160 | | | |
| DAVID O TERRY LOCK & DAM | | | 1 | 9 | 65 | 1 | 7 | 125 | 6 | 10 | 25 | 1 | 8 | 62 : | 24 | 950 | 39.6 | 142 | | | |
| MURRAY LOCK & DAM | | | 1 | 5 | 30 | 1 | 6 | 41 | 8 | 10 | 23 | 1 | 7 | 51 : | 24 | 766 | 31.9 | 145 | | | |
| TOAD SUCK FERRY LOCK & DAM | | | 1 | 8 | 38 | 1 | 9 | 35 | 5 | 10 | 35 | 1 | 10 | 70 : | 77 | 1014 | 13.2 | 120 | | | |
| LOCK & DAM 9 | | | 1 | 11 | 50 | 1 | 9 | 38 | 8 | 13 | 44 | 1 | 10 | 55 : | 66 | 649 | 9.8 | 97 | | | |
| DARDANELLE LOCK & DAM | | | 1 | 15 | 109 | 1 | 8 | 37 | 5 | 13 | 40 | 1 | 9 | 45 : | 159 | 986 | 6.2 | 70 | | | |
| OZARK LOCK & DAM | | | 1 | 11 | 40 | 2 | 11 | 55 | 10 | 12 | 25 | 2 | 12 | 40 : | 136 | 1390 | 10.2 | 80 | | | |
| LOCK & DAM 13 | | | 1 | 8 | 43 | 1 | 10 | 44 | 10 | 13 | 53 | 1 | 12 | 44 : | 22 | 490 | 22.3 | 46 | | | |

TABLE 1

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/83 THROUGH 12/83
INSTITUTE FOR WATER RESOURCES

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| EROC | DISTRICT NAME | DIVISION NAME | MONTHS REPORTED | | |
|------|---------------|---------------|-----------------|-------|-------|
| MS | TULSA | SOUTHWESTERN | 10/83 | 11/83 | 12/83 |

| RIVER | LCODE-LOCK NAME | LEN/MID/DRAFT (FT/FT/FT) |
|----------------|-----------------------------------|--------------------------|
| ARKANSAS RIVER | 21-W D MAYO LOCK & DAM | 0600/0110/14.0 |
| | 22-ROBERT S KERR LOCK & DAM & RES | 0600/0110/14.0 |
| | 23-WEBBERS FALLS LOCK & DAM | 0600/0110/14.0 |
| | 24-CHOUTEAU LOCK & DAM | 0670/0110/14.0 |
| | 25-NENT GRAHAM LOCK & DAM | 0670/0110/14.0 |

TABLE 2

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/83 THROUGH 12/83
INSTITUTE FOR WATER RESOURCES

| EROC H5 | DISTRICT NAME TULSA | DIVISION NAME SOUTHWESTERN | MONTHS REPORTED | | | | | | | | | | | |
|-------------------------------|------------------------|-------------------------------|-----------------|-----------------|----------------|----------------|----------------|---------------|-----------------|------------------|------------------|-----------------|-----------------|--------------------|
| | | | 10/83 | | | 11/83 | | | 12/83 | | | | | |
| RIVER/LOCK NAME | | | TONS | VESSL RECRTN | VESSL OTHER | VESSL TOTAL | BARGS EMPTY | BARGS FULL | BARGES TOTAL | LOCKGS COMMER | LCKGES RECRTN | LCKGES OTHER | LCKGES TOTAL | TONNAGE (KTONS) |
| (NAV, OPN, ETC) | | | | | | | | | | | | | | |
| ARKANSAS RIVER | | | | | | | | | | | | | | |
| W D MAYO LOCK & DAM | | | XXX | | | | | | | | | | | |
| UPBOUND STATISTICS | | | 90 | 69 | 5 | 164 | 263 | 226 | 489 | 97 | 29 | 6 | 132 | 286 |
| DOWNBOUND STATISTICS | | | 85 | 74 | 3 | 162 | 62 | 393 | 455 | 91 | 28 | 6 | 125 | 550 |
| TOTALS | | | 175 | 143 | 8 | 326 | 325 | 619 | 944 | 188 | 57 | 12 | 257 | 836 |
| ROBERT S KERR LOCK & DAM &RES | | | XXX | | | | | | | | | | | |
| UPBOUND STATISTICS | | | 87 | 49 | 6 | 142 | 260 | 220 | 480 | 95 | 35 | 3 | 133 | 280 |
| DOWNBOUND STATISTICS | | | 85 | 60 | 3 | 148 | 61 | 394 | 455 | 90 | 43 | 3 | 136 | 551 |
| TOTALS | | | 172 | 109 | 9 | 290 | 321 | 614 | 935 | 185 | 78 | 6 | 269 | 832 |
| WEBBERS FALLS LOCK & DAM | | | XXX | | | | | | | | | | | |
| UPBOUND STATISTICS | | | 86 | 21 | 4 | 111 | 226 | 216 | 442 | 91 | 14 | 23 | 128 | 282 |
| DOWNBOUND STATISTICS | | | 83 | 28 | 5 | 116 | 69 | 348 | 417 | 89 | 17 | 20 | 126 | 493 |
| TOTALS | | | 169 | 49 | 9 | 227 | 295 | 564 | 859 | 180 | 31 | 43 | 254 | 775 |
| CHOUTEAU LOCK & DAM | | | XXX | | | | | | | | | | | |
| UPBOUND STATISTICS | | | 88 | 7 | 6 | 101 | 208 | 175 | 383 | 95 | 7 | 5 | 107 | 227 |
| DOWNBOUND STATISTICS | | | 85 | 9 | 3 | 97 | 58 | 297 | 355 | 90 | 8 | 3 | 101 | 394 |
| TOTALS | | | 173 | 16 | 9 | 198 | 266 | 472 | 738 | 185 | 15 | 8 | 208 | 623 |
| NEWT GRAHAM LOCK & DAM | | | XXX | | | | | | | | | | | |
| UPBOUND STATISTICS | | | 87 | 8 | 4 | 99 | 198 | 172 | 370 | 92 | 7 | 4 | 103 | 215 |
| DOWNBOUND STATISTICS | | | 88 | 10 | 1 | 99 | 65 | 289 | 354 | 89 | 9 | 2 | 100 | 389 |
| TOTALS | | | 175 | 18 | 5 | 198 | 263 | 461 | 724 | 181 | 16 | 6 | 203 | 604 |

TABLE 3

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/83 THROUGH 12/83
INSTITUTE FOR WATER RESOURCES

| EROC MS | DISTRICT NAME TULSA | DIVISION NAME SOUTHWESTERN | MONTHS REPORTED | | | | | | | | | | | | | | | |
|------------------------------|------------------------|-------------------------------|--------------------------------|-----|-----|------------|-----|-----|-------------------------|-----|-----|------|-------|--------|-----------------------------|-------------|-----------|-----------|
| | | | 10/83 | | | | | | 11/83 | | | | 12/83 | | | | | |
| | | | ALL TIMES EXPRESSED IN MINUTES | | | | | | | | | | | | | | | |
| | | | APPROACH | | | LOCK ENTRY | | | PROCESSING TIME CHAMBER | | | EXIT | | | : DELAYED DELAY : TONS TIME | | DELAY AVG | DELAY MAX |
| MIN | AVG | MAX | : MIN | AVG | MAX | : MIN | AVG | MAX | : MIN | AVG | MAX | : | | (TONS) | (TONS) | (ALL VSSLS) | | |
| ARKANSAS RIVER | | | | | | | | | | | | | | | | | | |
| W D MAYO LOCK & DAM | | | 1 | 10 | 43 | 1 | 9 | 39 | 5 | 11 | 50 | 1 | 10 | 70 : | 9 | 357 | 39.7 | 100 |
| ROBERT S KERR LOCK & DAM &RE | | | 2 | 8 | 36 | 1 | 10 | 37 | 10 | 15 | 27 | 1 | 11 | 47 : | 6 | 215 | 35.8 | 78 |
| WEBBERS FALLS LOCK & DAM | | | 1 | 14 | 70 | 2 | 8 | 45 | 10 | 19 | 50 | 3 | 10 | 104 : | 52 | 854 | 16.4 | 73 |
| CHOUTEAU LOCK & DAM | | | 1 | 10 | 28 | 1 | 8 | 35 | 5 | 15 | 36 | 1 | 9 | 44 : | 108 | 953 | 8.8 | 576 |
| NEWT GRAHAM LOCK & DAM | | | 1 | 11 | 35 | 1 | 9 | 43 | 6 | 14 | 38 | 1 | 13 | 52 : | 29 | 434 | 15.0 | 53 |

END